

ADF&G TECHNICAL DATA REPORT NO. 224
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STATE OF ALASKA
Steve Cowper, Governor



COMPILED OF CATCH, ESCAPEMENT, AGE, SEX, AND SIZE DATA
FOR SALMON RETURNS TO THE YAKUTAT AREA IN 1986

By:

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and

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May 1988

ALASKA DEPARTMENT OF FISH AND GAME
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DON W. COLLINSWORTH
COMMISSIONER

ADF&G TECHNICAL DATA REPORTS

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Technical Data Report No. 224

Alaska Department of Fish and Game
Division of Commercial Fisheries
Juneau, Alaska

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TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES	iv
LIST OF FIGURES	v
LIST OF APPENDICES	vi
ABSTRACT	xiv
INTRODUCTION	1
METHODS	2
Abundance Data	2
Age, Sex, and Size Data	2
RESULTS AND DISCUSSION	3
Chinook Salmon	4
Sockeye Salmon	4
Coho Salmon	5
Chum Salmon	5
Pink Salmon	5
ACKNOWLEDGMENTS	6
LITERATURE CITED	7
APPENDICES	37

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1. Yakutat Area commercial gill net harvest in numbers of salmon by fishery, 1986	10	
2. Yakutat Area sport and subsistence harvest in numbers of salmon by fishery, 1986	11	
3. Yakutat Area escapement of salmon by river system, 1986	12	
4. Yakutat Area commercial gill net harvest in numbers of chinook salmon by fishery and week, 1986	13	
5. Age composition of chinook salmon from Yakutat Area fisheries and escapements, 1986	14	
6. Yakutat Area commercial gill net harvest in numbers of sockeye salmon by fishery and week, 1986	15	
7. Age composition of sockeye salmon from Yakutat Area commercial gill net fisheries, 1986	16	
8. Age composition of sockeye salmon from Yakutat Area escapements, 1986	17	
9. Yakutat Area commercial gill net harvest in numbers of coho salmon by fishery and week, 1986	18	
10. Age composition of coho salmon from Yakutat Area commercial gill net fisheries, 1986	19	
11. Yakutat Area commercial gill net harvest in numbers of chum salmon by fishery and week, 1986	20	
12. Age composition of chum salmon from the East Alsek River commercial gill net fishery and escapement, 1986.....	21	
13. Yakutat Area commercial gill net harvest in numbers of pink salmon by fishery and week, 1986	22	

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1. Map of Yakutat Area, Alaska from Cape Fairweather to Malaspina Glacier showing fishing district boundaries		23
2. Map of Yakutat Area, Alaska from Malaspina Glacier to Cape Suckling showing fishing district boundaries		24
3. Age composition of the catch and escapement of sockeye salmon in the East Alsek River		25
4. Age composition of the catch and escapement of sockeye salmon in the Alsek River		27
5. Age composition of the catch and escapement of sockeye salmon in the Situk River		29
6. Age composition of the catch and escapement of sockeye salmon in the Akwe River		31
7. Average lengths of the Situk River escapement of sockeye salmon by sex, age class, and year		33
8. Average lengths of the East Alsek River escapement of sockeye salmon by sex, age class, and year		34
9. Average lengths of the Akwe River escapement of sockeye salmon by sex, age class, and year		35
10. Age composition of the Situk River commercial catch of coho salmon by year		36
11. Age composition of the Tsiu River commercial catch of coho salmon by year		36

LIST OF APPENDIX TABLES

	<u>Page</u>
Appendix A:	
A1. Numbered calendar weeks (i.e., Stat Weeks) used to report commercial catches, 1986	38
A2. Sample size needed to describe the age composition of a three, four, five, six, or seven-age class population of increasing size with a precision of $\pm 5\%$ and a probability of 0.10	39
Appendix B: East Alsek River	
B1. East Alsek River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986 ...	40
B2. East Alsek River and Doame River escapement of salmon, 1986	41
B3. Age composition of the East Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	42
B4. Age composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	43
B5. Age composition of the East Alsek River escapement of sockeye salmon by sex, age class, and sampling period, 1986	45
B6. Age composition of the East Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	46
B7. Age composition of the East Alsek River commercial gill net catch of chum salmon by sex, age class, and fishing period, 1986	47
B8. Length composition of the East Alsek River commercial gill net catch of chinook salmon by sex age class, and fishing period, 1986	48
B9. Length composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	49
B10. Length composition of the East Alsek River escapement of sockeye salmon by sex, age class, and sampling period, 1986	51

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
B11. Length composition of the East Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period 1986	52
B12. Length composition of the East Alsek River commercial gill net catch of chum salmon by sex, age class, and fishing period, 1986	53
 Appendix C: Alsek River	
C1. Alsek River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	54
C2. Alsek River escapement of salmon, 1986	55
C3. Klukshu River daily escapement of chinook salmon through the Klukshu Weir, and associated statistics, 1986	56
C4. Klukshu River daily escapement of sockeye salmon through Klukshu Weir, and associated statistics, 1986	57
C5. Klukshu River daily escapement of coho salmon through Klukshu Weir, and associated statistics, 1986	59
C6. Age composition of the Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	60
C7. Age composition of the Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	61
C8. Age composition of the Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	63
C9. Length composition of the Alsek River commercial gill net catch of chinook salmon, by sex, age class, and fishing period, 1986	64
C10. Length composition of the Alsek River commercial gill net catch of sockeye salmon, by sex, age class, and fishing period, 1986	65
C11. Length composition of the Alsek River commercial gill net catch of coho salmon, by sex, age class, and fishing period, 1986	67

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
C12. Age composition of the Klukshu River escapement of sockeye salmon by sex, age class, and sampling period, 1986	68
C13. Length composition of the Klukshu River sockeye escapement by sex, age class, and sampling period, 1986	70
C14. Length composition of the Klukshu River chinook salmon escapement by sex and age class, 1986	72
C15. Age composition of the Klukshu River escapement of chinook salmon by sex and age class, 1986	73
 Appendix D: Akwe River	
D1. Akwe River commercial gill net catch of salmon, number of fishermen, and number of hours fished by period, 1986	74
D2. Akwe River escapement of salmon, 1986	75
D3. Age composition of the Akwe River commercial gill net catch of chinook salmon, by sex, age class, and fishing period, 1986	76
D4. Age composition of the Akwe River commercial gill net catch of sockeye salmon, by sex, age class, and fishing period, 1986	77
D5. Age composition of the Akwe River escapement of sockeye salmon by sex, age class, and sampling period, 1986	79
D6. Age composition of the Akwe River commercial gill net catch of coho salmon, by sex, age class, and fishing period, 1986	80
D7. Length composition of the Akwe River commercial gill net catch of chinook salmon, by sex, age class, and fishing period, 1986	81
D8. Length composition of the Akwe River commercial gill net catch of sockeye salmon, by sex, age class, and fishing period, 1986	82
D9. Length composition of the Akwe River escapement of sockeye salmon, by sex, age class, and sample period, 1986	83
D10. Length composition of the Akwe River commercial gill net catch of coho salmon, by sex, age class, and fishing period, 1986	84

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
Appendix E: Italio River	
E1. Italio River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	85
E2. Italio River escapement of salmon, 1986	86
E3. Age composition of the Italio River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	87
E4. Age composition of the Italio River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	89
E5. Length composition of the Italio River commercial gill net catch of sockeye salmon, by sex, age class, and fishing period, 1986	90
E6. Length composition of the Italio River commercial gill net catch of coho salmon, by sex, age class, and fishing period, 1986	92
Appendix F: Dangerous River	
F1. Dangerous River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	93
F2. Dangerous River escapement of salmon, 1986	94
F3. Age composition of the Dangerous River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	95
F4. Length composition of the Dangerous River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	96
Appendix G: Situk River	
G1. Situk River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	97
G2. Situk River escapement of salmon, 1986	98
G3. Situk River daily escapement of chinook salmon, and associated statistics, 1986	99
G4. Situk River daily escapement of sockeye salmon, and associated statistics, 1986	100

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
G5. Situk River daily escapement of pink salmon, and associated statistics, 1986	101
G6. Age composition of the Situk River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	102
G7. Age composition of the Situk River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 ..	103
G8. Age composition of the Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986	104
G9. Age composition of the Old Situk River escapement of sockeye salmon by sex, age class and sampling period, 1986	106
G10. Age composition of Situk River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	107
G11. Length composition of the Situk River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	108
G12. Length composition of the Situk River commercial gill net catch of sockeye salmon by sex, age class and fishing period, 1986	109
G13. Length composition of the Situk River sockeye salmon escapement by sex, age class, and sampling period, 1986	110
G14. Length composition of the Old Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986 .	112
G15. Length composition of the Situk River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	113

Appendix H: Lost River

H1. Lost River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	114
H2. Lost River escapement of salmon, 1986	115
H3. Age composition of the Lost River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	116
H4. Age composition of the Lost River escapement of sockeye salmon by sex, age class, and fishing period	117

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
H5. Age composition of the Lost River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	118
H6. Length composition of the Lost River commercial gill net catch of sockeye salmon, by sex, age class, and fishing period, 1986	119
H7. Length composition of the Lost River escapement of sockeye salmon, by sex, age class and sampling period, 1986	120
H8. Length composition of the Lost River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	121

Appendix I: Yakutat Bay

I1. Yakutat Bay commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	122
I2. Yakutat Bay escapement of salmon, 1986	123
I3. Age composition of the Yakutat Bay commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	124
I4. Age composition of Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 ..	125
I5. Age composition of the Yakutat Bay commercial gill net catch of coho salmon by sex, age class and fishing period, 1986 ...	127
I6. Length composition of the Yakutat Bay commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986	128
I7. Length composition of the Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	129
I8. Length composition of the Yakutat Bay commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	131

Appendix J: Manby Shore

J1. Manby Shore commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	132
J2. Manby Shore escapement of salmon, 1986	133

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
J3. Age composition of the Manby Shore commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	134
J4. Age composition of the Manby Shore commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	135
J5. Length composition of the Manby Shore commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986	136
J6. Length composition of the Manby Shore commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	137
 Appendix K: Yahtse River	
K1. Yahtse River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	138
K2. Yahtse River escapement of salmon, 1986	139
K3. Age composition of the Yahtse River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	140
K4. Length composition of the Yahtse River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	141
 Appendix L: Icy Bay	
L1. Icy Bay area commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	142
L2. Icy Bay area escapement of salmon, 1986	143
 Appendix M. Kaliakh River	
M1. Kaliakh River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	144
M2. Kaliakh River escapement of salmon, 1986	145
M3. Age composition of the Kaliakh River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	146
M4. Length composition of the Kaliakh River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	147

LIST OF APPENDIX TABLES (Continued)

	<u>Page</u>
Appendix N: Tsiu River	
N1. Tsiu River commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986	148
N2. Tsiu River escapement of salmon, 1986	149
N3. Age composition of the Tsiu River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986	150
N4. Length composition of the Tsiu River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986 ..	151

ABSTRACT

Abundance, age, sex, and size data are presented for the adult salmon returns to the Yakutat Area in 1986. Set gill net fishermen harvested 267,736 salmon, 27% below the recent 10 year average. Most streams had average or below average sockeye salmon (*Oncorhynchus nerka* Walbaum) returns and this coupled with overall below average coho salmon (*O. kisutch* Walbaum) returns resulted in the poorest fishing season since 1976. Pink salmon (*O. gorbuscha* Walbaum) returns and harvest were low, with sockeye and coho salmon comprising 90% of the total harvest. The incidental chinook salmon (*O. tshawytscha* Walbaum) harvest of 1,424 fish was below the 1976-85 average due to restrictions on intercepting set gill net fisheries, and a poor return to the Alsek River. The East Alsek River set net harvest of 74,972 sockeye salmon accounted for 50% of the 150,518 sockeye salmon harvested. The Situk River catch of 7,617 sockeye salmon was the second lowest since record-keeping began in 1930. Sockeye salmon returns to most of the other rivers were average.

Fishing time in the Situk River, Lost River, Yakutat Bay, and Manby Shore fisheries was restricted in order to improve Situk River escapements. Sockeye salmon escapement goals were met for the Alsek River but not the Situk. Coho salmon returns to the Yakutat Area were below average and the total set net catch of 91,938 fish was the below the 1976-85 average of 126,071. The chum salmon (*O. keta* Walbaum) harvest in the East Alsek River of 14,317 fish was well above the 1966-85 average. Pink salmon returns were very weak, and only 7,248 fish were sold because of poor market conditions. Alaskan subsistence fishermen reported catches of 301 chinook salmon, 2,357 sockeye salmon, and 586 coho salmon. Canadian subsistence catches totaled 102 chinook and 1,952 sockeye salmon from Alsek River tributaries. Sport fishermen in Alaska caught 37 chinook, 488 sockeye, 4,171 coho, and 1,358 pink salmon and in Canada sport fishermen caught 145 chinook, 329 sockeye, and 3 coho salmon.

Chinook salmon catches and escapements were dominated by age-1.2, and -1.3 fish. Age-1.3 fish dominated sockeye salmon catches in the Situk River, Lost River, Alsek River, Italio River, Yakutat Bay, and Manby Shore fisheries, while age-0.3 fish dominated Akwe and East Alsek River fisheries. Coho salmon were predominantly aged -1.1 and -2.1 and chum salmon were predominantly aged -0.3.

KEY WORDS: Salmon, escapement, age, sex, size, scale pattern analysis, Yakutat area, subsistence, sport, and commercial catches

INTRODUCTION

Yakutat Area drainages (Figure 1) support returns and fisheries of all five North American species of Pacific salmon. Sockeye salmon (*Oncorhynchus nerka*) are the most intensively harvested salmon species in the Yakutat Area and support terminal commercial set gill net (set net) fisheries in the East Alsek, Alsek, Akwe, Italio, Situk, and Lost Rivers. All of these river systems also support fisheries on chinook (*O. tshawytscha*), coho (*O. kisutch*), chum (*O. keta*), and pink (*O. gorbuscha*) salmon. Several river systems north of Yakutat Bay (the Yahtse, Tsiu, and Kaliakh Rivers) are major producers of coho salmon and support terminal set net fisheries for this species. Set net fisheries harvesting mixed stocks of salmon occur in the Manby Shore area and Yakutat Bay and target primarily on sockeye and coho salmon. The Yakutat coastal waters also support mixed-stock troll fisheries targeting on coho salmon. The troll fishery is not addressed in this report. The magnitude and age, sex, and size composition of the troll fisheries have been reported by Mesiar 1984, Van Aken and Wood 1986, Van Aken and Wood 1987, Wood and Van Aken 1987.

The Alaska Department of Fish and Game (ADF&G) is currently faced with a wide range of resource assessment and allocation issues involving Yakutat Area fisheries. ADF&G manages the salmon fisheries in the area while the Canadian Department of Fisheries and Oceans (DFO) manages the fisheries in the upper Alsek River drainage. Sockeye salmon stocks in the area have been highly variable, and as a result present a variety of fishery management problems. Sockeye salmon returns to the Situk River have steadily declined since the peak of the fishery in the early 1900's and reached an all-time low of 7,394 fish in 1984 (McBride 1986). Efforts to formulate a strategy to reverse this trend have been hampered by: (1) the lack of historical age-at-return data to determine optimum brood levels; and (2) the inability to quantify interceptions of Situk River fish in the Yakutat Bay and Manby Shore fisheries (McBride et al. 1984). The 1986 return of sockeye salmon to the Situk River was smaller than in 1985, with the second lowest catch on record. Conversely, sockeye salmon returns to the East Alsek River have dramatically increased in recent years and currently support the largest sockeye salmon fishery in the Yakutat Area. These divergent trends have contributed to large shifts in fishing effort and alterations in fishing schedules.

Yakutat Area coho salmon returns, although variable, have generally been healthy. Management of the coho salmon resource has been hampered by the lack of: (1) precise spawning stock evaluation techniques; (2) preseason forecasts of abundance to address wide fluctuations in returns; and (3) the inability to assess the effects of coastal and offshore troll fisheries on individual stocks.

Chinook salmon returns have generally been depressed, requiring resource managers to institute regulatory measures to minimize commercial exploitation in the inshore commercial fisheries. Management of both the sockeye and chinook salmon returns to the Alsek River, a transboundary river for which proprietorship is shared between Alaska and Canada under the U.S./Canada Pacific Salmon Treaty, has been complicated by allocation controversies between the lower river Alaskan commercial fishery and the upriver Canadian sport and subsistence fisheries (McBride 1986). A complete

summary of regulations affecting the region's fisheries may be found in ADF&G (1986).

Addressing these and other concerns involving management of the Yakutat salmon resource requires knowledge of brood stock requirements needed to maintain the population at a level capable of producing optimal yield. To carry out this objective, it is necessary to accurately assess the magnitude of the harvest and spawning escapement and their distribution, age, sex, size and species composition.

The objective of this report is to present the baseline population statistics for the 1986 inshore return of salmon to the Yakutat Area. This report builds upon the data base established for the 1982 (McBride and Brogle 1983), 1983 (McBride 1984), 1984 (McBride 1986), and 1985 (Riffe et al. 1987) salmon returns to the Yakutat Area.

METHODS

Abundance Data

ADF&G Division of Commercial Fisheries compiled the Alaska commercial catch data used in this report. These data are based on preliminary computer tabulations of individual sales records (fish tickets). Catches are reported on fish tickets as both total number and total weight of landing. The fish ticket tabulations used in this report were current through 31 July 1987. These data are reported by weekly periods listed in Appendix A.

Set net fishing was permitted only during specified weekly fishing periods and in select areas. The fishing time and number of boats that fished each week in each set net fishery was reported by Thomason and Woods (1986). Sport catch data by river system are only available for the Situk and Lost Rivers, and all other freshwater catches are pooled. CDFO compiled sport and subsistence catches and escapement counts from the upper Alsek River system (Pat Milligan, CDFO Whitehorse, Personal communication).

Most of the escapement enumeration data presented in this report were obtained from aerial surveys (Thomason and Woods 1986). These data are considered indices of relative abundance and do not represent a complete enumeration of season escapement. However, aerial survey data for some river systems and species were extensive enough to estimate the total spawning escapement, but the precision of these estimates is not known and the inter-annual variability is probably large. Aerial survey data for sockeye salmon escapements in the East Alsek, Italio, and Lost River systems; coho salmon escapements to the East Alsek (Doame River), Italio, Tsiu, and Kaliakh Rivers; and chum salmon escapements to the East Alsek River are presented as rough estimates of the total spawning escapement. Salmon escapements to the Situk River and to the Klukshu River (Alsek River system) were counted through a weir.

Age, Sex, and Size Data

Fish were sampled for scales, sex, and length. Scales were collected on the left side of the fish approximately two rows above the lateral line along a

diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin and were mounted on gummed cards to allow impressions to be made in cellulose acetate (Clutter and Whitesel 1956). Age was determined by visual examination of scale impressions magnified approximately 70x on a microfiche reader. Ages were reported in European notation. The first numeral refers to the number of years of freshwater residence after emergence, the second number refers to the number of years of marine residence and total age is the summation of these two numbers plus one. Sex determination was based on examination of morphometric characteristics. Fish length was measured from mid-eye to fork-of-tail on all fish except those sampled by CDFO staff in the Alsek River system, which were measured from post-eye to hypural. All lengths were recorded in millimeters.

Samples were collected from most sockeye, chinook, and coho salmon commercial catches. Chum salmon commercial catches from the East Alsek River were also sampled.

Samples were collected by ADF&G personnel from sockeye salmon spawning populations in the East Alsek, Akwe, Situk, and Lost River systems. CDFO personnel sampled sockeye salmon escapements at the Kluksu River weir. Live fish were sampled at the Situk and Kluksu River weirs. All other escapement samples were collected from spawned-out carcasses.

Age and length compositions were computed for each sampled fishery. Sampling goals were to collect enough samples to estimate the proportion of each age and the average length by age, in the population to within \pm 5 percentage points nine out of 10 times (Appendix A2). In order to examine the data for temporal trends the major sockeye salmon fisheries (East Alsek, Alsek, Situk, and Yakutat Bay) were sampled with weekly goals while all other fisheries were sampled as single time strata. We used the equations of Cochran (1977), corrected for finite population size as appropriate (Appendix A2) to compute the desired sample size for a strata. Sampling goals were not achieved for several fisheries due to small catches, fishery closures, difficulty in accessing fish to sample, and/or inadequate manpower. Weekly strata with small sample sizes were pooled.

Age and length compositions were also computed for each sampled escapement. For most of the sampled escapements, samples were collected from carcasses over a short period and these data were pooled into a single stratum. Samples collected from the Situk River sockeye salmon escapement were stratified over time as described above.

RESULTS AND DISCUSSION

Sockeye and coho salmon accounted for most of the commercial and sport harvest of salmon in Yakutat Area fisheries (Tables 1 and 2). Escapement estimates by species and river system are presented in Table 3. Summaries of commercial catches, escapements, and age data by species are presented in Tables 4-13. Detailed catch, effort, age, sex, and length data are presented by fishery and species (Appendices B-N).

Chinook Salmon

Yakutat Area chinook salmon returns were variable. Strong returns were realized in the Situk and Akwe Rivers. The Alsek River escapement of 2,708 past the Klukshu River weir was above the 1976-85 average of 2,455. The opening of the commercial fishery in the Alsek River was, for the fifth year, delayed to late June from the traditional early-June opening to minimize the catch of chinook salmon. In addition, mesh size was restricted to six inches or less on the Alsek to reduce the incidental catch of chinook salmon.

Fish aged-1.2, -1.3, and -1.4 dominated the catches and escapements. The freshwater-age-0. fish in the small sample of Yakutat Bay catches indicate that non-Alaskan (British Columbia, Washington, Oregon) fish were intercepted, since freshwater-age-0. fish are rare in Alaskan escapements (Van Alen et al. 1986). Sampling goals (600 fish) were not achieved for any of the chinook salmon fisheries or escapements because of low numbers of fish.

Sockeye Salmon

The overall sockeye salmon harvest was 6% below the 1976-85 average of 160,930 fish. As in recent years the majority of the catch (50%, or 74,972) came from the East Alsek River. The Situk catch of 7,617 fish was far below the 1976-85 average of 35,736 fish because of drastically reduced fishing time. In order to provide adequate escapements, the Situk River was closed for the first 3 weeks of the season, and opened on limited fishing time for the next three weeks, and then was closed for the last 3 weeks of the sockeye run giving a total sockeye salmon fishing time of only 3.5 days. Despite reduced fishing times the Situk River wier escapement of 71,543 fell short of the minimum desired goal of 80,000 fish. The Lost River and Yakutat Bay fisheries were also opened only on a limited basis to enhance escapement to the Situk River. The Lost River catch of 498 fish was the lowest ever recorded (1981-85 average 2,403 fish), while the Yakutat Bay catch (21,826 fish) was the second highest since 1943 (1976-85 average 12,073). The Manby Shore harvest of 5,013 fish was low (1977-85 average 10,215). Alsek River catches (24,791 fish) and escapements (Klukshu weir count of 24,800 fish) were good. Akwe catches (9,087 fish) were average, and escapement was good. Italio River catch was above average, but the escapement was poor (Thomason and Woods 1986). Sampling goals were achieved in most fisheries and in the escapements to the East Alsek, Alsek, and Situk Rivers.

Age-1.3 fish dominated the Situk River, Lost River, Dangerous River, Italio River, and Alsek River fisheries, and the Situk River and Klukshu River escapements. Age-0.3 fish were the most abundant age class in the Akwe, Yakutat Bay, and East Alsek River fisheries and in the Awke River and East Alsek River escapements. The East Alsek River sockeye salmon return is unique in that virtually the entire return is composed of freshwater-age-0. fish. Age-1.2 fish were most common in catches from the Manby Shore fisheries.

Temporal trends in age composition were evident in the catches in the East Alsek River fishery where the incidence of age-1.3 fish declined over time while the incidence of age-0.3 fish increased over time (Appendix B4). The fraction of age-1.3 fish ranged from 16.5% during the first period to 8.6%

during the last period. Age-1.3 fish were not abundant (6.2%) in the East River escapement. The fraction of age-1.3 fish in the Alsek River catch declined over time, and the fraction of age-1.2 fish increased. McBride (1986) hypothesized that the age-1.3 fish caught early in the East Alsek River fishery were due to interceptions of Alsek River fish.

Temporal trends were also evident in the catch of freshwater-age- 0. fish in the Akwe River, Italio River, and Yakutat Bay fisheries (Appendix D4, E3, and I4). The fraction of freshwater- age-0. fish declined over time in the Akwe River fishery but increased over time in the Italio River fishery. These differences in the Akwe and Italio Rivers may reflect the contribution of different stocks (lake and river spawners) within each system (Riffe et al. 1987). Inconsistent with results from previous years, the fractions of age-0.3 and -1.3 fish in the Yakutat Bay fishery varied from week to week with no consistent trend while the fraction of age-2.3 fish slowly increased over time. The age compositions of the catches and escapements of the major fisheries by year are illustrated in Figures 2-5. Interannual variation in length by sex and age class is illustrated in Figures 6-8 with sample sizes of less than 14 being insignificant at $p = .95$ (Cochran 1977).

Coho Salmon

The 1986 coho salmon returns were poor and the total commercial catch (91,938 fish) in the Yakutat Area was 28% below the 1976-85 average (does not include catches of coho salmon by the troll fishery). As in recent years, the Tsiu and Kaliakh Rivers were the best producers, their catch of 30,360 fish comprising 33% of the total area catch. Escapement levels were fair to poor and commercial fishing time was restricted in the Situk and Alsek Rivers where returns were extremely poor. All catches were dominated by age-2.1 fish, except the East Alsek River where 50% were age-1.1. Age-1.1 and -2.1 fish have consistently dominated the age composition of coho catches as indicated in Figures 9 and 10, while the relative contribution of each one varies greatly. Age-3.1 fish were common in all fishery age composition samples. Sampling goals were achieved in all fisheries except the East Alsek and Alsek Rivers where catches were low.

Chum Salmon

The East Alsek River is the only significant producer of chum salmon in the Yakutat Area. The 1986 East Alsek River catch of 16,608 fish was above the 1976-85 average (12,157 fish). Age-0.3 fish were most abundant (79%) in the 1986 catch (Appendix B7). The escapement was not sampled.

Pink Salmon

Pink salmon returns to the Yakutat Area were very weak with a total harvest of only 7,248 fish.

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TABLES AND FIGURES

Table 1. Yakutat Area commercial gill net harvest in numbers of salmon by fishery, 1986.

Fishery	Chinook	Sockeye	Coho	Pink	Chum
East Alsek	111	74,972	2,823	348	14,317
Alsek	478	24,791	1,344	13	462
Akwe	384	9,087	8,618	43	101
Italio	21	4,010	1,856	0	903
Dangerous	10	2,811	202	22	8
Situk	202	7,617	14,760	1,503	120
Lost	6	491	2,489	80	9
Yakutat Bay	211	21,724	3,060	5,234	680
Manby Shore	0	5,013	4,080	3	5
Yahtse			18,278	2	2
Icy Bay			4,068		
Kaliakh	1	2	10,770		1
Tsiu			19,590		
Total	1,424	150,518	91,938	7,248	16,608

Table 2. Yakutat Area sport and subsistence harvest in numbers of salmon by fishery, 1986. 1/

Fishery	Chinook	Sockeye	Coho	Pink	Chum
East River					
Subsistence		260		5	
Alsek River					
Subsistence in Alaska	22	241		45	
Subsistence in Canada 2/	102	1,952			
Sport in Canada 2/	145	329		3	
Akwe River					
Subsistence		15			
Italio River					
Subsistence		30			
Situk					
Subsistence 3/	87	1,116	410		72
Sport	37	488	1,448		1,274
Total	124	1,604	1,858		1,346
Lost River					
Sport			1,339		84
Yakutat Bay					
Subsistence	192	695	81		
Sport 4/			1,384		
Icy Bay					
Subsistence			45		20

1/ Reporting rate on Alaskan subsistence permits for 1986 was 89 percent for coho salmon, and 88 percent for all other species.

2/ Data from Canadian Department of Fisheries and Oceans, Whitehorse.

3/ Subsistence harvest includes catches from the Lost River and Ophir Creek.

4/ Sport harvest in Ankau Lagoon.

Table 3. Yakutat Area escapement in numbers of salmon by river system, 1986. 1/

Fishery	Chinook	Sockeye	Coho	Pink	Chum
East Alsek					
East Alsek R.	300	37,000			
Doame R.			800		
Alsek					
Tatshenshine R. 2/	914		180		
Klukshu Weir	2,708	24,880	62		
Lower Alsek 3/	142	3,100	1,110		
Akwe					
Akwe R.		953	5,900		
Akwe L.		86			
Little Akwe R.		1,574	20		
Italio					
Italio R.		3,800	2,650	2,300	700
Italio L.		1,500			
Old Italio R.			50		
Dangerous		40			
Situk					
Situk Weir	2,572	71,543	16	41,346	
Situk R. 4/			3,162	85,000	
Old Situk R. 5/		3,000		6,200	
Sockeye Ck. 5/		4,070			
Antlen R.			50		
Lost					
Ophir Ck.		1,500	310		
Tawah Ck.		30	3,300 4/	473 4/	
Yakutat Bay					
Humpy Ck. 5/				6,233	
Other 5/			115		
Manby Shore 6/			620		
Yahtse			75		
Icy Bay 7/			650		
Tsiu			11,550		
Kaliakh 8/			5,400		

1/ Peak aerial surveys unless noted otherwise.

2/ Blanchard Creek, Takhanni River, and Klukshu River.

3/ Tanis River, Cabin Creek, Basin Creek, Cannery Creek, Goat Creek, Muddy Creek, Emile Creek, Williams Creek, and Gine Creek.

4/ Boat survey.

5/ Foot survey.

6/ Spoon River, Esker Creek, and Manby Stream. Manby Stream foot survey.

7/ Point Riou Creek and Jetty Creek.

8/ Kaliakh and Kultieth Rivers.

Table 4. Yakutat Area commercial gill net harvest in numbers of chinook salmon by fishery and week, 1986.

Stat. Week	Inclusive Dates	Fishery										Total	
		East			Yakutat				Manby				
		Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Bay	Shore	Yahtse	Tsiu Kaliakh	
24	6/08-6/14								35				35
25	6/15-6/21	1/ -	274				-	-	55	0			329
26	6/22-6/28	-	146	228		3	-	-	64	0			441
27	6/29-7/05	54	42	82	5	6	-	-	-	0			189
28	7/06-7/12	30	13	18	6	0	84	3	21	0			175
29	7/13-7/19	10	3	42	2	1	95	2	15	0			170
30	7/20-7/26	5	0	6	0	0	19	1	2	0			33
31	7/27-8/02	4	0	3	3	0	-	-	14	0			24
32	8/03-8/09	5	0	0	5	0	-	0	0	0	-	0	10
33	8/10-8/16	-	0	0	0	0	-	0	3	0	-	0	3
34	8/17-8/23	2	0	3	0	0	1	0	1	0	0	0	0
35	8/24-8/30	0	0	2	0	0	2	0	0	0	0	0	4
36	8/31-9/06	1	0	0	0	0	1	0	1	0	0	0	3
37	9/07-9/13	0	0	0	0	0	0	0	0	0	0	0	0
38	9/14-9/20	0	0	0	0	0	0	0	0	0	0	0	0
39	9/21-9/27	0	-	0	0	0	-	0	0	0	0	0	0
40	9/28-10/4	-	-	0	0	0	-	0	0	0	-	-	0
Total		111	478	384	21	10	202	6	211	0	0	0	1,423

1/ " - " denotes closure of the fishery for the statistical week.

Table 5. Age composition of chinook salmon from Yakutat Area fisheries, 1986.

Fishery	Sample Size	Total Catch	Brood Year and Age Group					
			1983		1982		1981	
			0.2	1.1	0.3	1.2	0.4	1.3
East Alsek	4	111					75.0	25.0
	Std. Error						25.0	25.0
Alsek	163	478	0.6	1.2	35.0	0.6	56.4	6.1
	Std. Error		0.6	0.9	3.7	0.6	3.9	1.9
Akwe	93	384	2.2		54.8		32.3	10.8
	Std. Error		1.5		5.2		4.9	3.2
Situk	69	202		1.4	24.6	1.4	50.7	21.7
	Std. Error			1.4	5.2	1.4	6.1	5.0
Yakutat Bay	67	211	4.5		16.4	7.5	53.7	11.9
	Std. Error		2.5		2.9	4.6	3.2	4.0

Table 6. Yakutat Area commercial gill net harvest in numbers of sockeye salmon by fishery and week, 1986.

Stat. Week	Inclusive Dates	Fishery											Total	
		East			Yakutat			Manby						
		Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Bay	Shore	Yahtse	Kaliakh	Tsiu	
24	6/08-6/14								1,359					1,359
25	6/15-6/21	1/ -	1,196				- 1/	-	1,539	0				2,735
26	6/22-6/28	-	2,240	888		98	-	-	1,943	137				5,306
27	6/29-7/05	482	4,071	2,133	615	117	-	-	-	994				8,412
28	7/06-7/12	1,306	2,277	1,719	1,039	37	1,045	6	1,380	1,228				10,037
29	7/13-7/19	3,654	2,605	2,704	768	300	4,554	111	3,230	863				18,789
30	7/20-7/26	5,424	2,783	805	624	428	1,512	190	2,476	1,561				15,803
31	7/27-8/02	17,508	4,053	535	436	723	-	-	6,496	228				29,979
32	8/03-8/09	16,275	4,259	108	456	690	-	0	790	0		0	-	22,578
33	8/10-8/16	-	761	32	34	405	-	46	2,115	0		1	-	3,394
34	8/17-8/23	19,597	469	134	30	0	331	100	374	0		0	0	21,035
35	8/24-8/30	9,149	40	20	5	13	124	26	9	1	0	1	0	9,388
36	8/31-9/06	1,424	22	7	3	0	44	8	7	1	0	0	0	1,516
37	9/07-9/13	115	13	2	0	0	4	2	1	0	0	0	0	137
38	9/14-9/20	38	2	0	0	0	3	1	4	0	0	0	0	48
39	9/21-9/27	0	-	0	0	0	-	1	1	0	0	0	0	2
40	9/28-10/4	-	-	0	2/	0	-	0	0	0	0	-	-	0
Total		74,972	24,791	9,087	4,010	2,811	7,617	491	21,724	5,013	0	2	0	150,518

1/ " - " denotes that fishery was closed for the statistical week.

2/ Fishery was open, but catch data was not entered in fish ticket data base.

Table 7. Age composition of sockeye salmon from Yakutat Area commercial gill net fisheries, 1986.

Fishery	Sample Size	Total Catch	Brood Year and Age Group								
			1983			1982			1981		
			0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2
East Alsek	1,147	74,972	12.1	72.2	6.2		8.6	0.5		0.4	<0.1
	Std. Error		1.2	1.7	1.0		1.1	0.3		0.3	<0.1
Alsek	1,647	24,791	1.6	7.2	15.1		67.4	1.7	0.2	6.8	
	Std. Error		0.4	0.7	1.0		1.3	0.4	0.1	0.7	
Akwe	725	9,087	22.3	49.2	2.5		21.2	1.3	0.3	3.2	
	Std. Error		1.9	2.3	0.7		1.9	0.5	0.3	0.8	
Italio	693	4,010	4.8	35.4	6.4	0.3	49.6	1.0	0.3	2.1	
	Std. Error		0.8	1.9	1.0	0.2	2.0	0.4	0.2	0.6	
Dangerous	469	2,811	1.0	4.8	33.1		42.3	8.6		10.2	
	Std. Error		0.5	1.1	2.4		2.5	1.4		1.6	
Situk	975	7,617	1.3	13.9	11.4	<0.1	44.9	6.1	<0.1	22.2	0.2
	Std. Error		0.5	1.6	1.6	<0.1	2.5	1.1	<0.1	2.1	0.2
Lost	157	491	3.4	18.3	21.3		43.3	4.6		9.1	
	Std. Error		1.5	3.1	3.3		4.0	1.7		2.2	
Yakutat Bay	1,761	21,724	2.6	32.7	9.0	0.1	41.4	3.1	0.1	10.8	0.1
	Std. Error		0.5	1.3	0.8	0.1	1.4	0.5	0.1	0.9	0.1
Manby Shore	349	5,013	0.3	5.2	37.0		29.8	8.6		18.3	0.9
	Std. Error		0.3	1.2	2.6		2.5	1.5		2.1	0.5

Table 8. Age composition of sockeye salmon from Yakutat Area escapements, 1986.

Escapement	Sample Size	Total Escapement	Brood Year and Age Group									
			1984			1983			1982			1981
			0.1	0.2	1.1	0.3	1.2		1.3	2.2		1980
East Alsek	519	37,000	2/	0.4	32.4		58.3	1.9	6.2		0.4	
			Std. Error		0.3	2.1		2.2	0.6	1.1		0.3
Alsek 1/		24,880	3/									
			Std. Error									
Akwe	411		2/		35.0		56.7	1.7	5.6		1.0	
			Std. Error		2.4		2.4	0.6	1.1		0.5	
Situk	1,017	71,543	3/				1.4	14.8	61.1	7.0	0.2	15.4
			Std. Error				0.4	1.2	1.6	0.8	0.1	1.1
Old Situk	187	3,000	2/	1.1	46.5		44.9	1.6	5.3	0.5		
			Std. Error		0.8	3.7		3.6	0.9	1.6	0.5	
Lost	97	1,500	4/		12.4	1.0	17.5	33.0	24.7	5.2		6.2
			Std. Error		3.4	1.0	3.9	4.8	4.4	2.3		2.5

1/ Klukshu Weir.

2/ Aerial survey peak estimate.

3/ Weir.

4/ Aerial survey, Ophir Creek.

Table 9. Yakutat Area commercial gill net harvest in numbers of coho salmon by fishery and week, 1986.

Stat. Week	Inclusive Dates	Fishery												Total	
		East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Yakutat Bay	Manby Shore	Icy Yahtse Bay	Kaliakh	Tsiu		
24	6/08-6/14													0	
25	6/15-6/21								30					30	
26	6/22-6/28					5			47					52	
27	6/29-7/05			4	1	5			-					10	
28	7/06-7/12	1		6	0	0	4		76	27				114	
29	7/13-7/19	1		2	0	0	3		89	0				95	
30	7/20-7/26	0		5	0	0	2		20	3				30	
31	7/27-8/02	0	1	0	3	16	-		81	6				107	
32	8/03-8/09	24	3	4	9	37	-	0	166	0		0	-	243	
33	8/10-8/16	1/-	9	0	23	0	-	21	642	0		408	-	4,290	
34	8/17-8/23	311	82	83	5	0	896	55	271	0		555	929	18,601	
35	8/24-8/30	939	89	165	160	139	3,882	276	230	901	375	3,683	4,575	31,807	
36	8/31-9/06	1,029	391	777	338	0	3,447	646	487	1,487	1,082	89	2,211	4,409	39,164
37	9/07-9/13	316	483	1,208	415	0	3,500	479	532	641	7,549	1,116	3,060	3,472	42,704
38	9/14-9/20	202	286	3877	610	0	3,026	618	249	444	3,408	1,420	670	5,123	27,709
39	9/21-9/27	0	-	1,278	292	0	-	254	69	571	3,216	831	183	1,082	7,776
40	9/28-10/4	-	-	1,209	2/	0	-	140	71	0	2,648	612	-	-	4,680
	Total	2,823	1,344	8,618	1,856	202	14,760	2,489	3,060	4,080	18,278	4,068	10,770	19,590	91,938

1/ " - " denotes that fishery was closed for the statistical week.

Table 10. Age composition of coho salmon from Yakutat Area commercial gill net fisheries, 1986.

Fishery	Sample Size	Total Catch	Brood Year and Age Group					
			1984		1983		1982	
			1.0	1.1	2.0	2.1	3.1	4.1
East Alsek	320	2,823		50.1		42.4	7.2	0.3
	Std. Error			2.9		2.8	1.5	0.3
Alsek	218	1,344		22.9		67.4	9.2	0.5
	Std. Error			2.9		3.2	2.0	0.5
Akwe	472	8,618	0.1	31.2		57.3	11.1	0.3
	Std. Error		0.1	2.8		3.0	1.8	0.1
Italio	436	1,856		37.7		56.4	5.5	0.4
	Std. Error			2.3		2.4	1.1	0.3
Situk	446	14,760		41.4		55.7	2.9	
	Std. Error			2.6		2.7	0.9	
Lost	511	2,489		30.7		54.9	13.4	0.9
	Std. Error			2.2		2.3	1.6	0.5
Yakutat Bay	509	3,060		27.3		63.7	8.8	0.1
	Std. Error			2.1		2.2	1.3	0.1
Manby Shore	504	4,080	0.1	18.6	0.4	71.1	9.5	0.3
	Std. Error		0.1	2.1	0.4	2.4	1.4	0.2
Yahtse	490	18,278		13.6	<0.1	69.7	16.2	0.4
	Std. Error			1.9	<0.1	2.6	2.1	0.3
Kaliakh	581	10,770		22.1		65.6	11.9	0.4
	Std. Error			1.8		2.0	1.4	0.3
Tsiu	530	19,590		42.5		47.6	9.0	0.8
	Std. Error			2.2		2.2	1.3	0.4

Table 11. Yakutat Area commercial gill net harvest in numbers of chum salmon by fishery and week, 1986.

Stat. Week	Inclusive Dates	Fishery										Total		
		East Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Yakutat Lost	Manby Bay	Manby Shore	Yahtse	Kaliakh	Tsiu	
24	6/08-6/14								31				31	
25	6/15-6/21							-		33			33	
26	6/22-6/28							-		41			41	
27	6/29-7/05				4	3	-			-			7	
28	7/06-7/12	3		5	2	0	4		43				57	
29	7/13-7/19	5		11	23	0	12		22				73	
30	7/20-7/26	0		4	29	0	2		25	2			62	
31	7/27-8/02	15		48	519	3	-		46	2			633	
32	8/03-8/09	130	15	17	176	0	-		47	0			385	
33	8/10-8/16	1/-	0	0	82	0	-		348	0			430	
34	8/17-8/23	6,293	93	11	38	2	32	5	41	0			6,515	
35	8/24-8/30	3,818	23	2	19	0	25	1	0	0		1	3,889	
36	8/31-9/06	2,828	92	0	4	0	25	3	2	1		0	2,955	
37	9/07-9/13	482	146	0	3	0	13	0	0	0		0	644	
38	9/14-9/20	743	93	3	4	0	7	0	0	0	2	0	852	
39	9/21-9/27	0	-	0	0	0	-	0	1	0	0	0	1	
40	9/28-10/4	-	-	0	0 2/	0	-	0	0	0	0	-	0	
Total		14,317	462	101	903	8	120	9	680	5	2	1	0	16,608

1/ " - " denotes that the fishery was closed for the statistical week.

2/ The fishery was open, but catch data was not entered on the fish ticket data base.

Table 12. Age composition of chum salmon from the East Alsek River commercial gill net fishery, 1986.

		1983	1982	1981	1980
Sample		—	—	—	—
Size	Total	0.2	0.3	0.4	0.5
Catch	369 14,317	5.0	79.2	15.0	0.8

Table 13. Yakutat Area commercial gill net harvest in numbers of pink salmon by fishery and week, 1986.

Statistical Week	Inclusive Dates	Fishery										Total		
		East			Yakutat			Manby						
		Alsek	Alsek	Akwe	Italio	Dangerous	Situk	Lost	Bay	Shore	Yahtse	Tsiu Kaliakh		
24	6/08-6/14												0	
25	6/15-6/21												0	
26	6/22-6/28												0	
27	6/29-7/05												0	
28	7/06-7/12												4	
29	7/13-7/19			1			154	7	90				252	
30	7/20-7/26			2			406	0	337				745	
31	7/27-8/02	68	1	0		22	-	-	1,605				1,696	
32	8/03-8/09	90	0	0		0	-	0	688				778	
33	8/10-8/16	-	0	0		0	-	12	2,061				2,073	
34	8/17-8/23	188	11	40		0	856	31	449				1,575	
35	8/24-8/30	0	1	0		0	76	30	0				107	
36	8/31-9/06	2	0	0		0	5	0	0				7	
37	9/07-9/13	0	0	0		0	6	0	0	3	1		10	
38	9/14-9/20	0	0	0		0	0	0	0	0	1		1	
39	9/21-9/27	0	0	0		0	-	0	0	0	0		0	
40	9/28-10/4	-	0	0		0	-	0	0	0	0		0	
Total		348	13	43	0	22	1,503	80	5,234	3	2	0	0	7,248

1/ " - " denotes that fishery was closed for the statistical week.

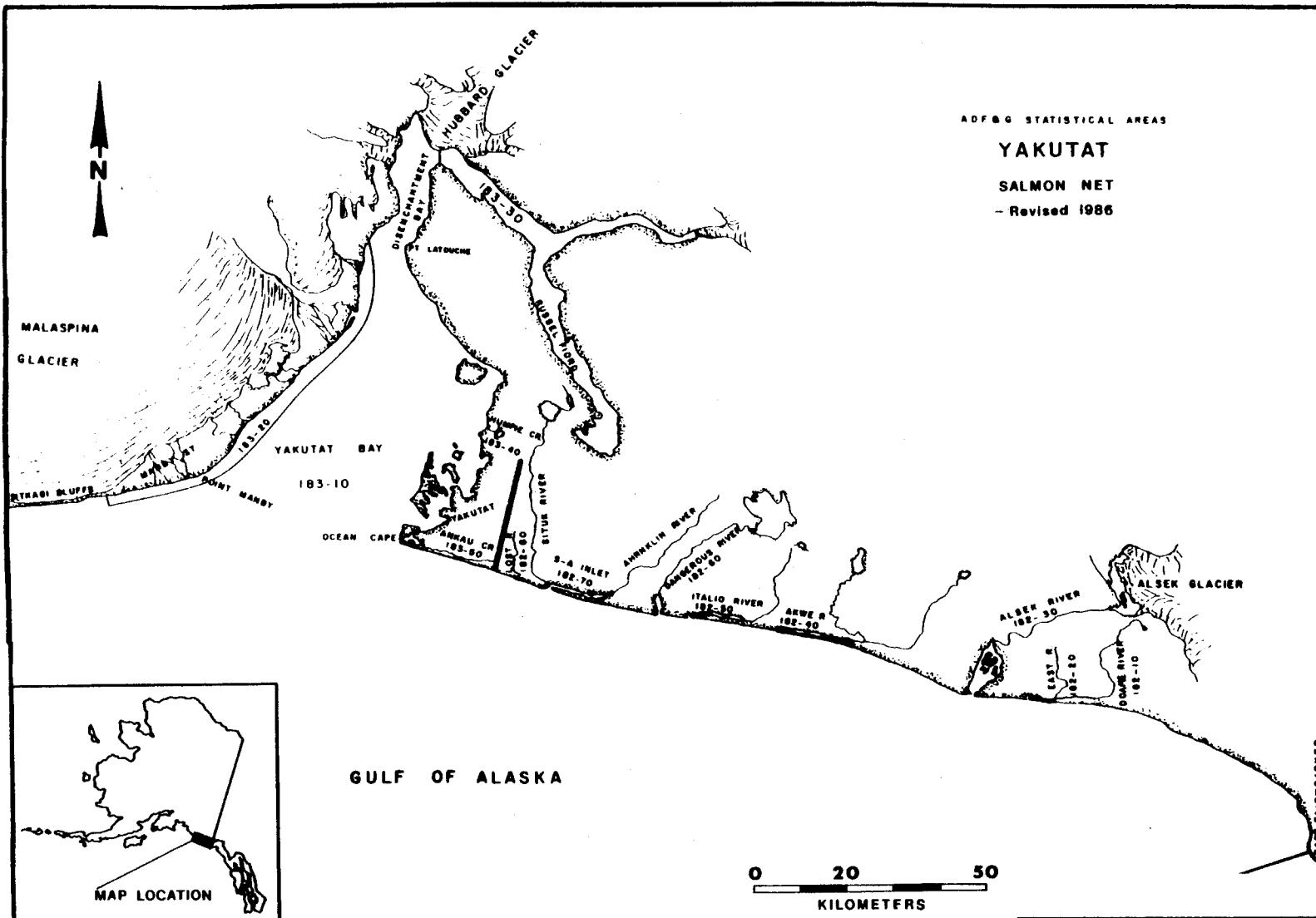


Figure 1. Map of Yakutat Area, Alaska from Cape Fairweather to Malaspina Glacier showing fishing district boundaries.

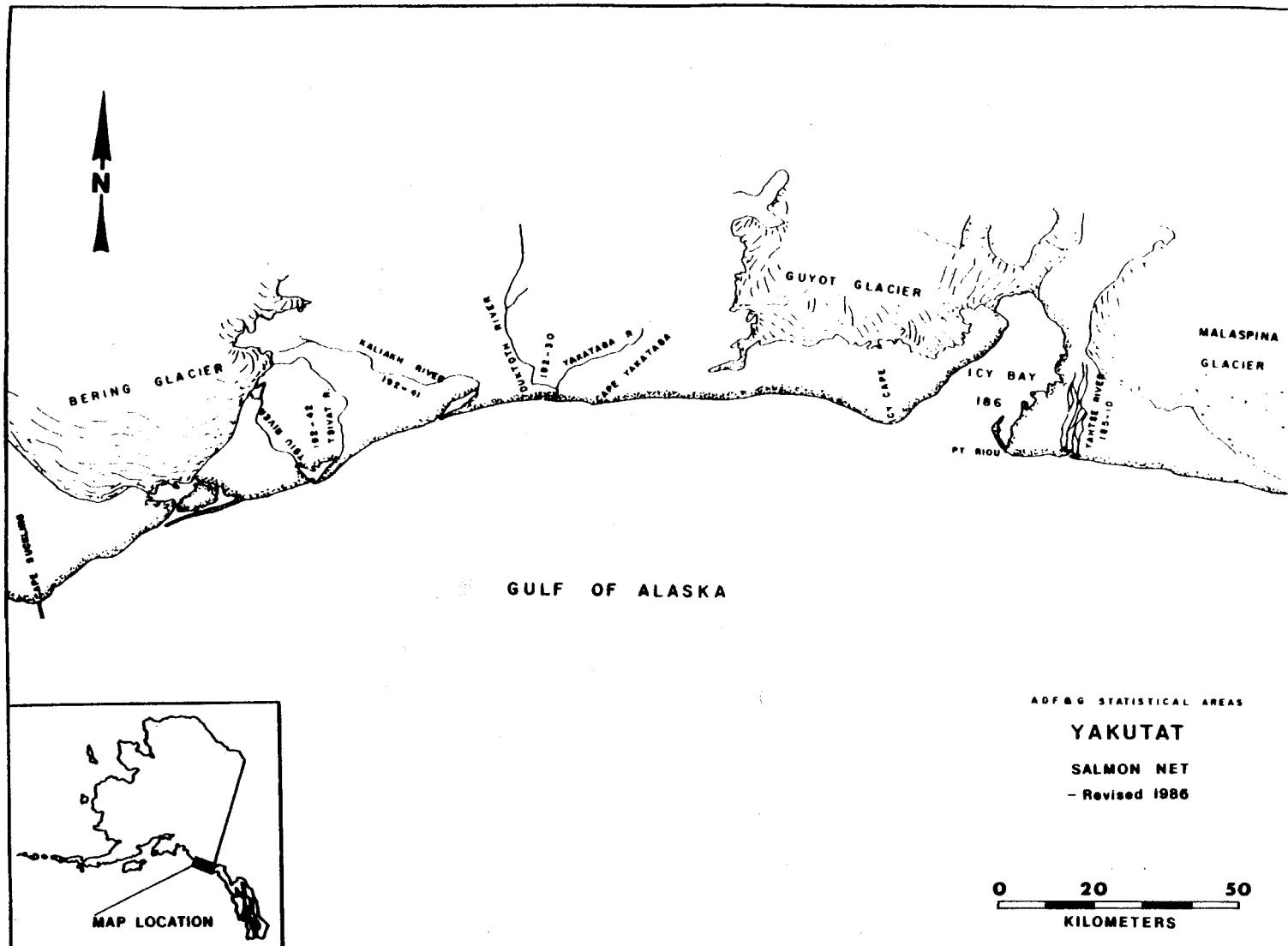


Figure 2. Map of Yakutat Area, Alaska from Malaspina Glacier to Cape Suckling showing fishing district boundaries.

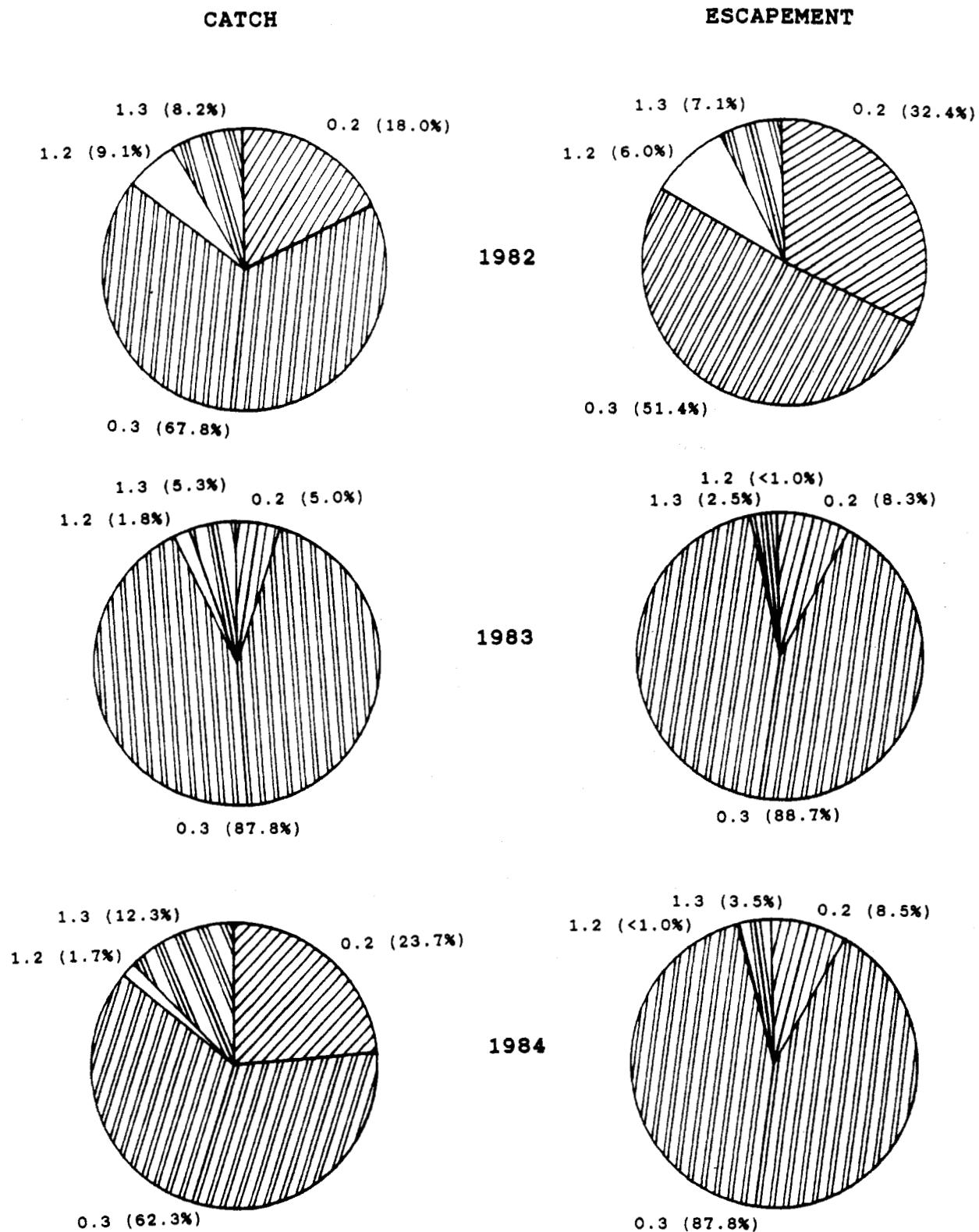
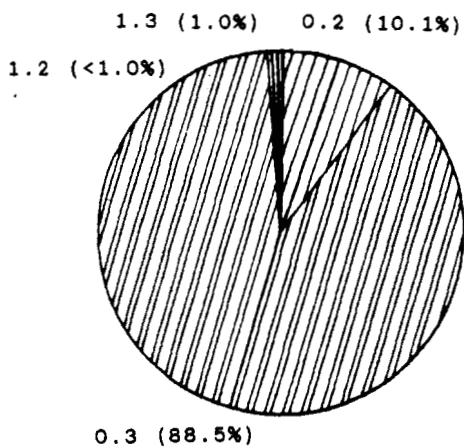
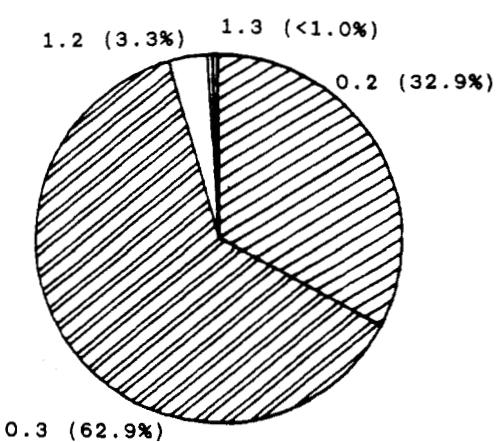
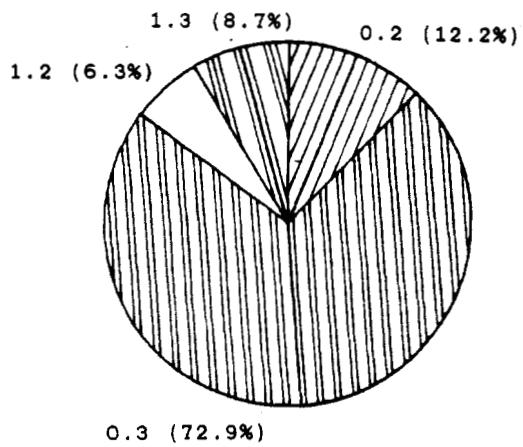


Figure 3. Age composition of the catch and escapement of sockeye salmon in the East River 1982-84.

-continued-

CATCH**ESCAPEMENT**

1985



1986

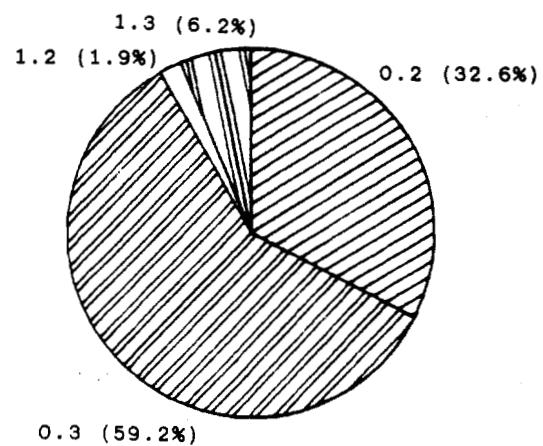


Figure 3. (page 2 of 2)

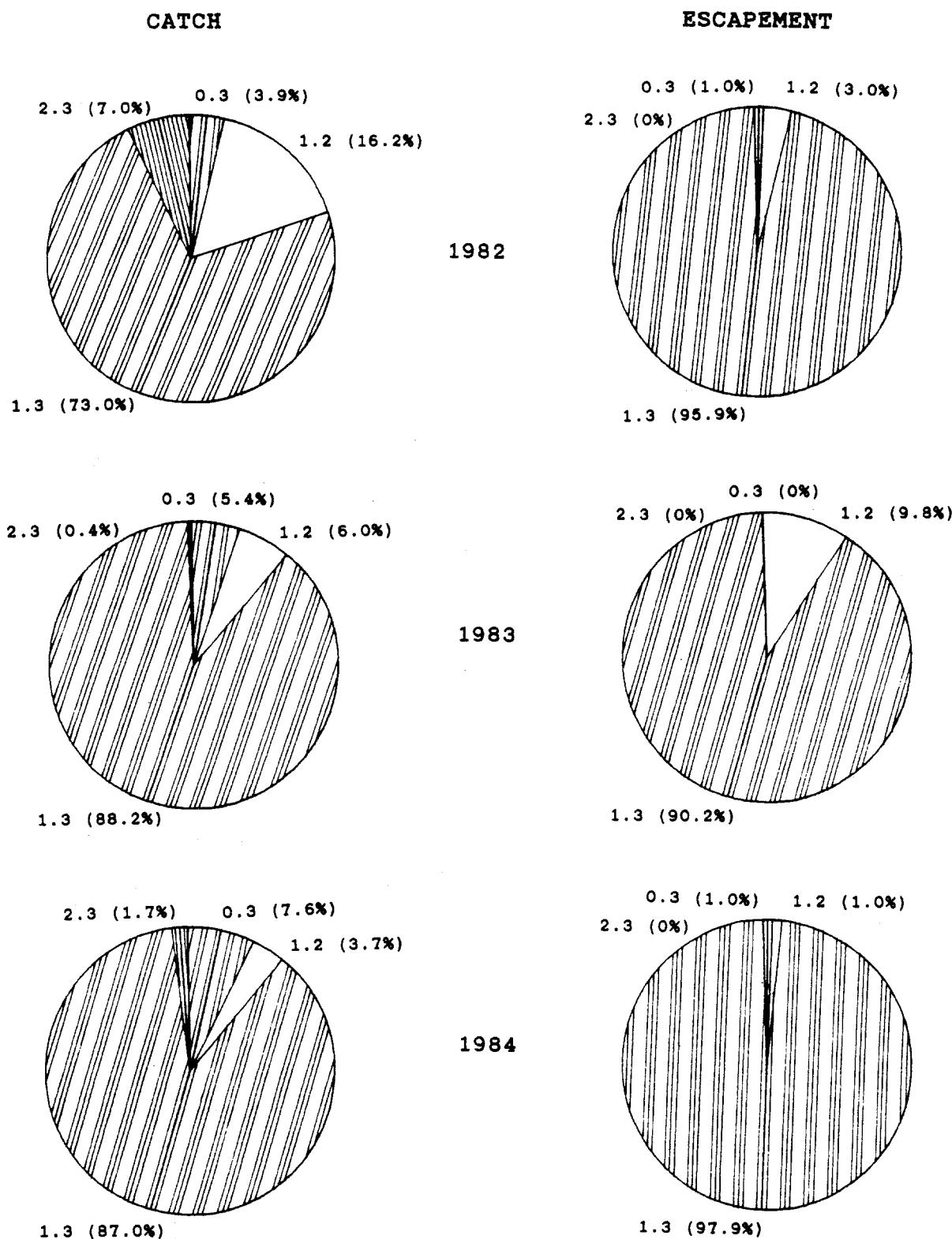
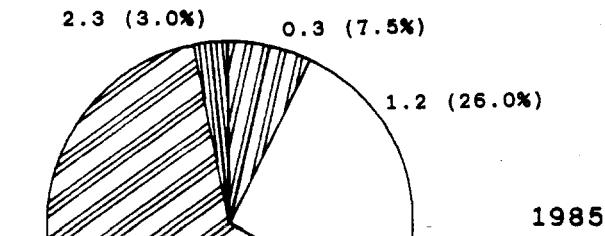


Figure 4. Age composition of the catch and escapement of sockeye salmon in the Alsek River 1982-84.

-continued-

CATCH

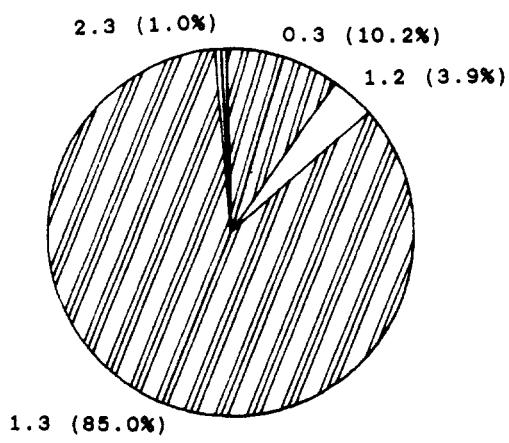


1.3 (63.6%)

1.2 (26.0%)

1985

ESCAPEMENT



1.3 (85.0%)

1.2 (3.9%)

0.3 (10.2%)

2.3 (1.0%)

2.3 (7.0%)

0.3 (7.5%)

1.2 (15.6%)

1986

1.3 (69.8%)

1.3 (80.3%)

1.2 (9.7%)

0.3 (3.4%)

2.3 (6.6%)

Figure 4. (page 2 of 2)

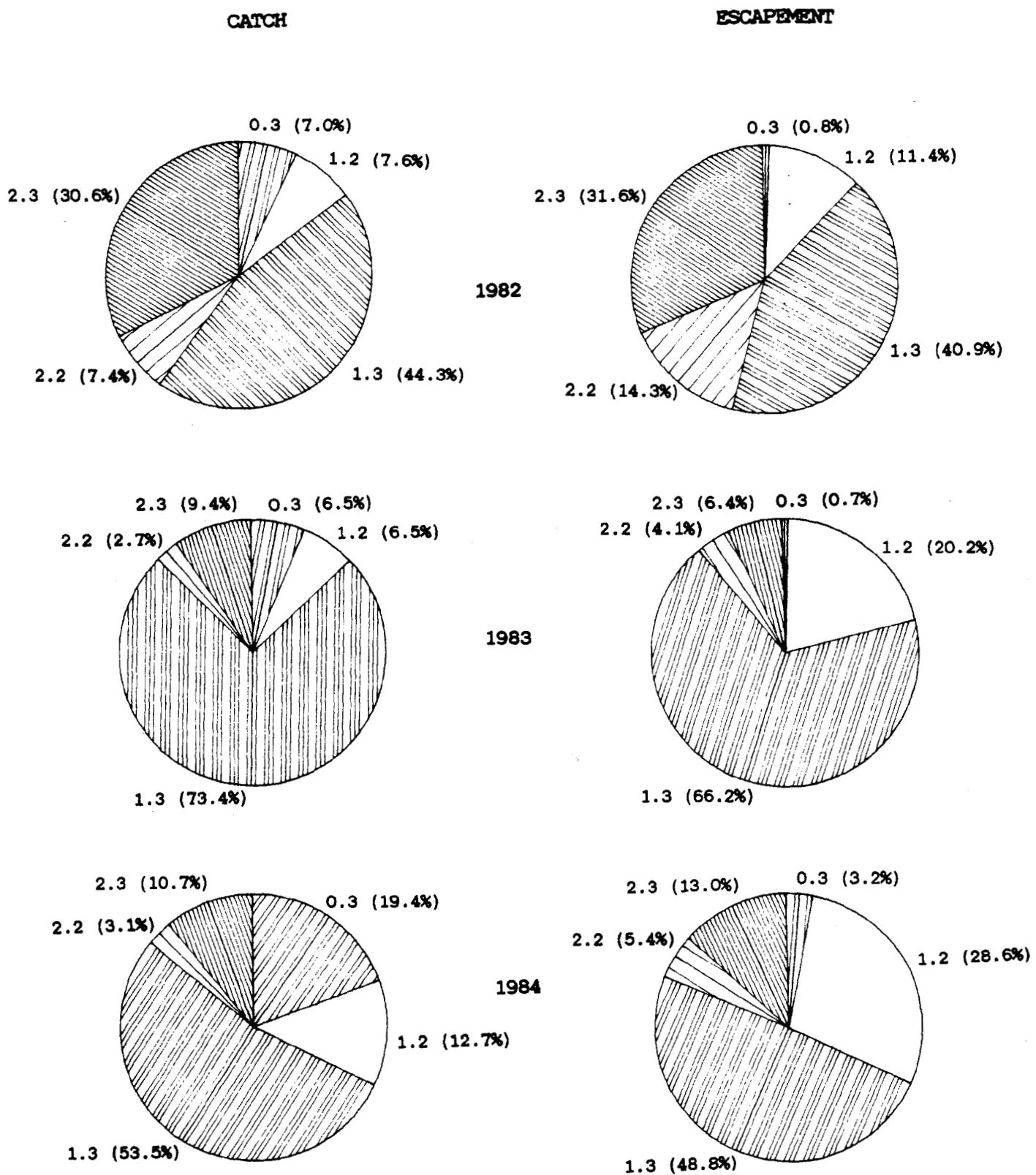


Figure 5. Age composition of the catch and escapement of sockeye salmon in the Situk River 1982-84.

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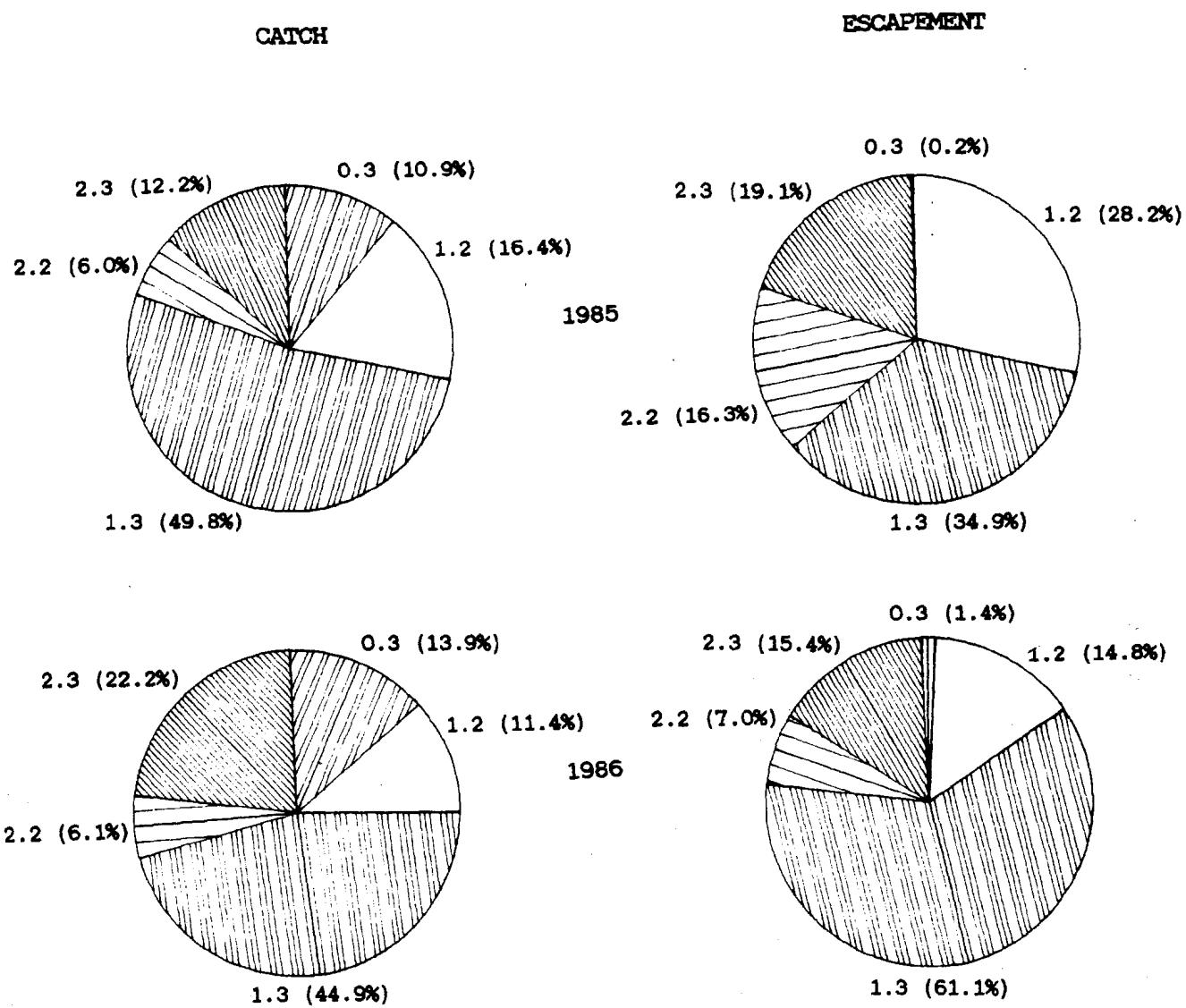


Figure 5. (page 2 of 2)

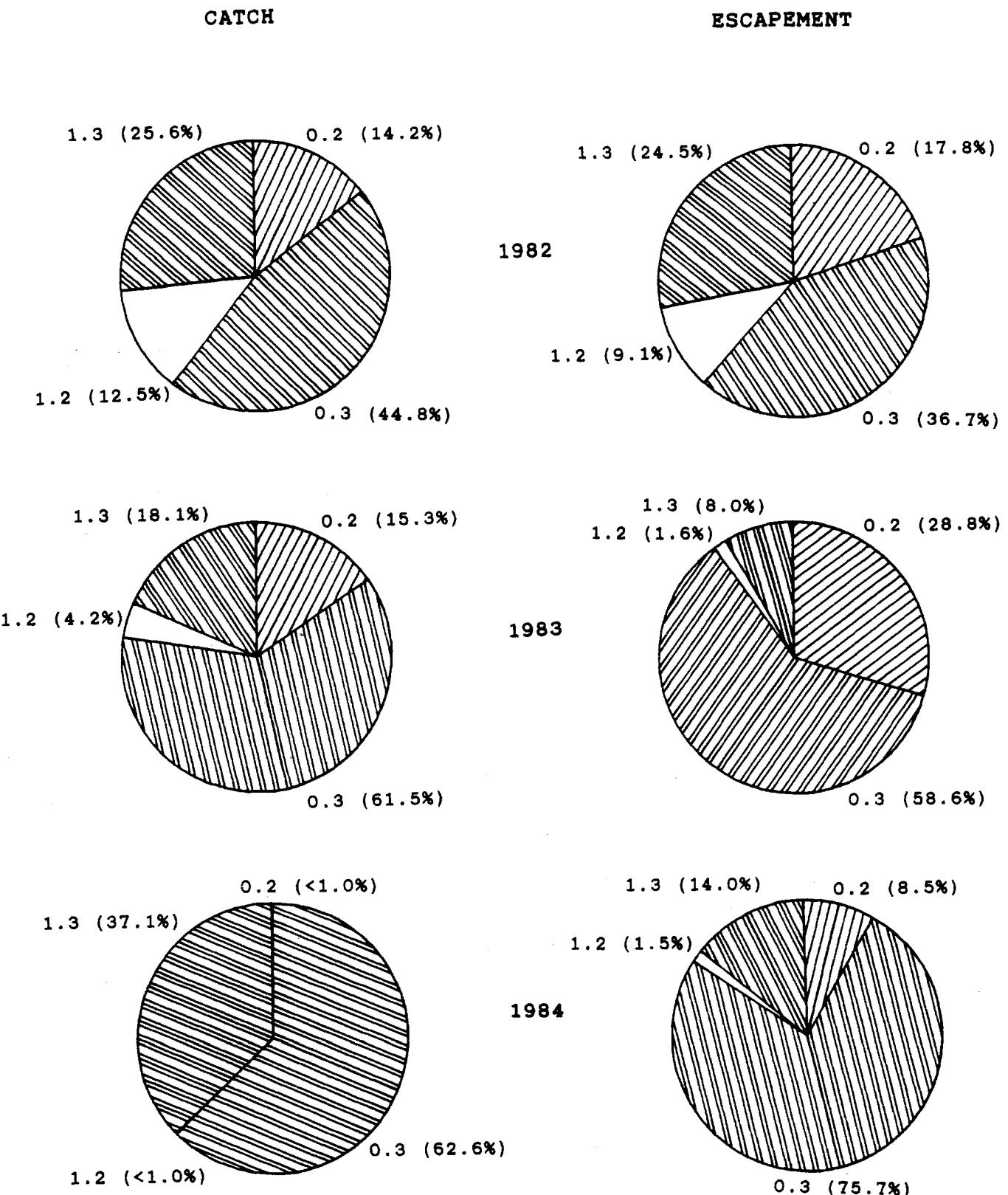


Figure 6. Age composition of the catch and escapement of sockeye salmon in the Akwe River 1982-84.

-continued-

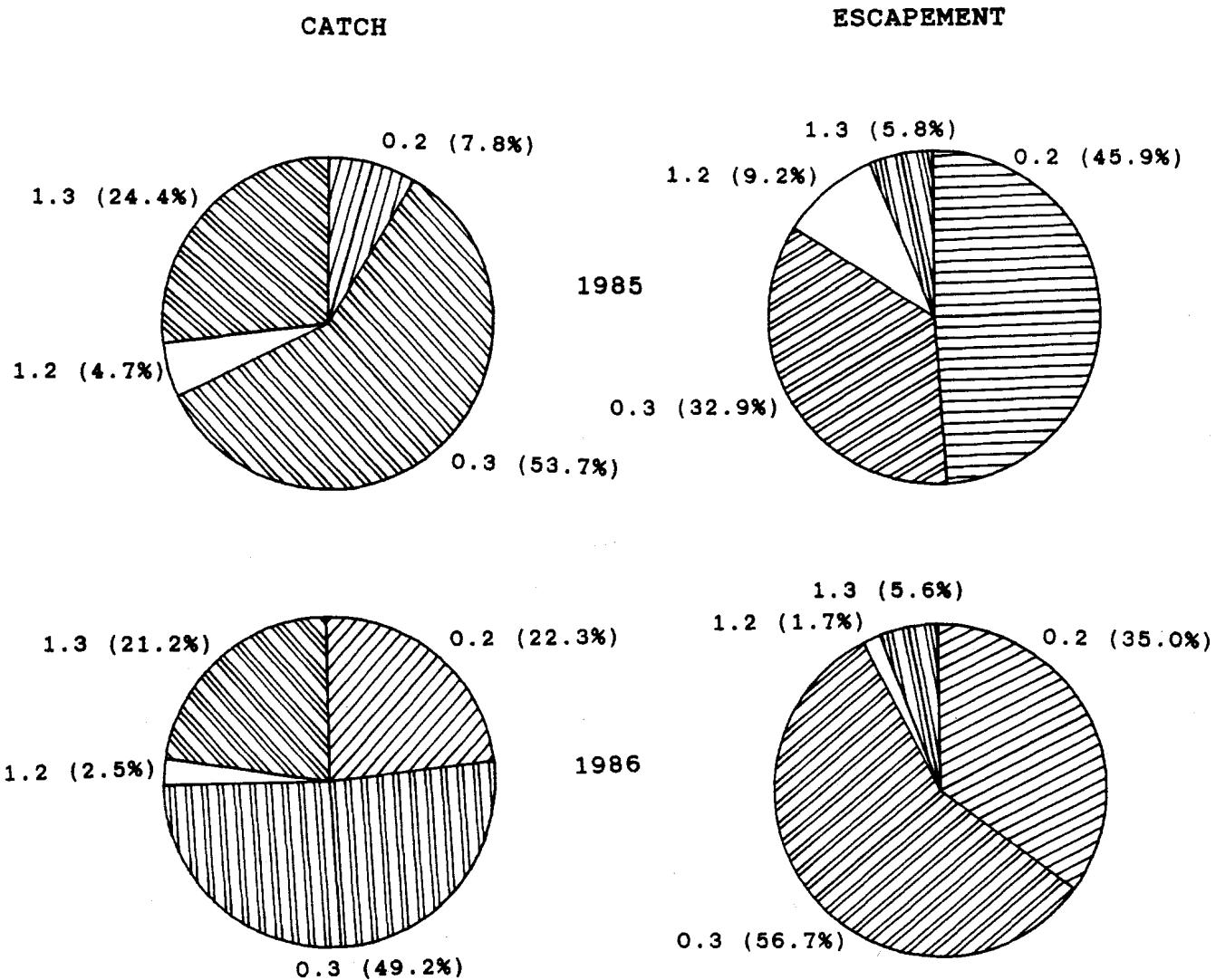


Figure 6. (page 2 of 2)

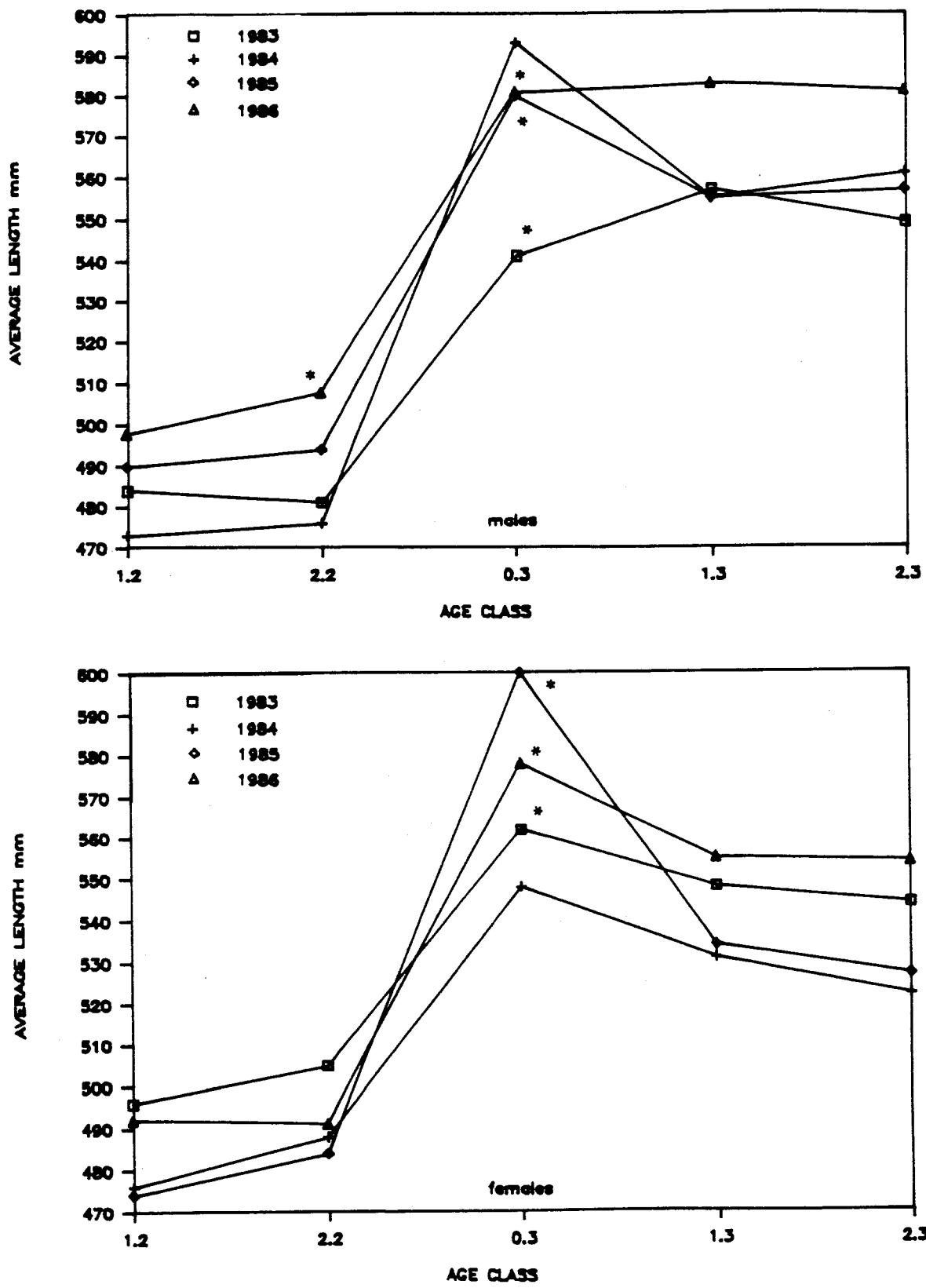


Figure 7. Average lengths of the Situk River escapement of sockeye salmon by sex, age class, and year. Asterisk indicates sample size less than 14.

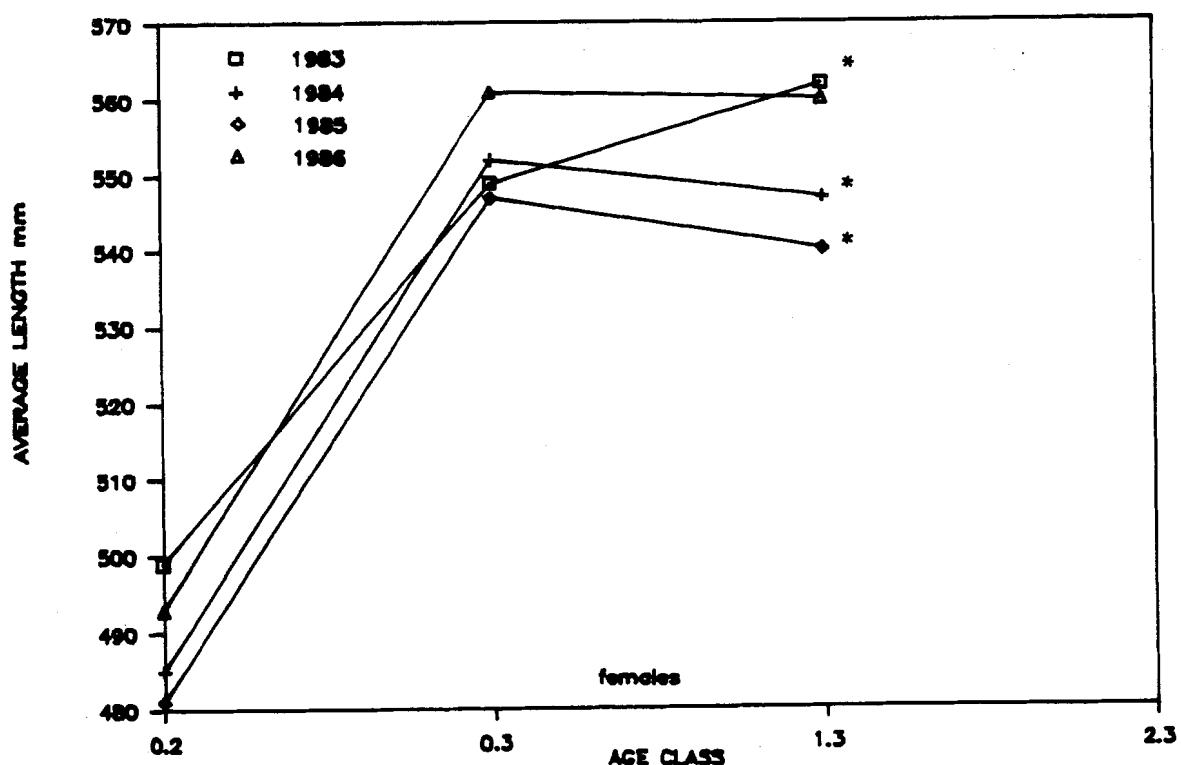
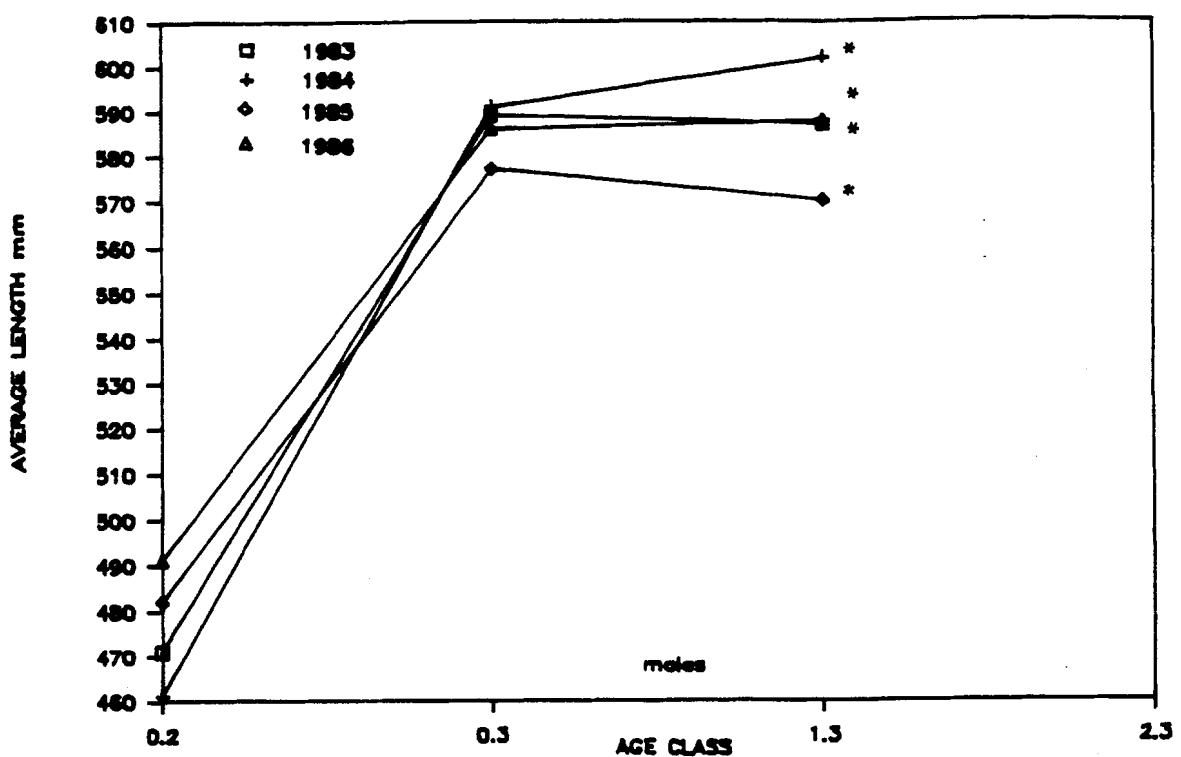


Figure 8. Average lengths of the East Alsek River escapement of sockeye salmon by sex, age class, and year. Asterisk indicates sample size of less than 14.

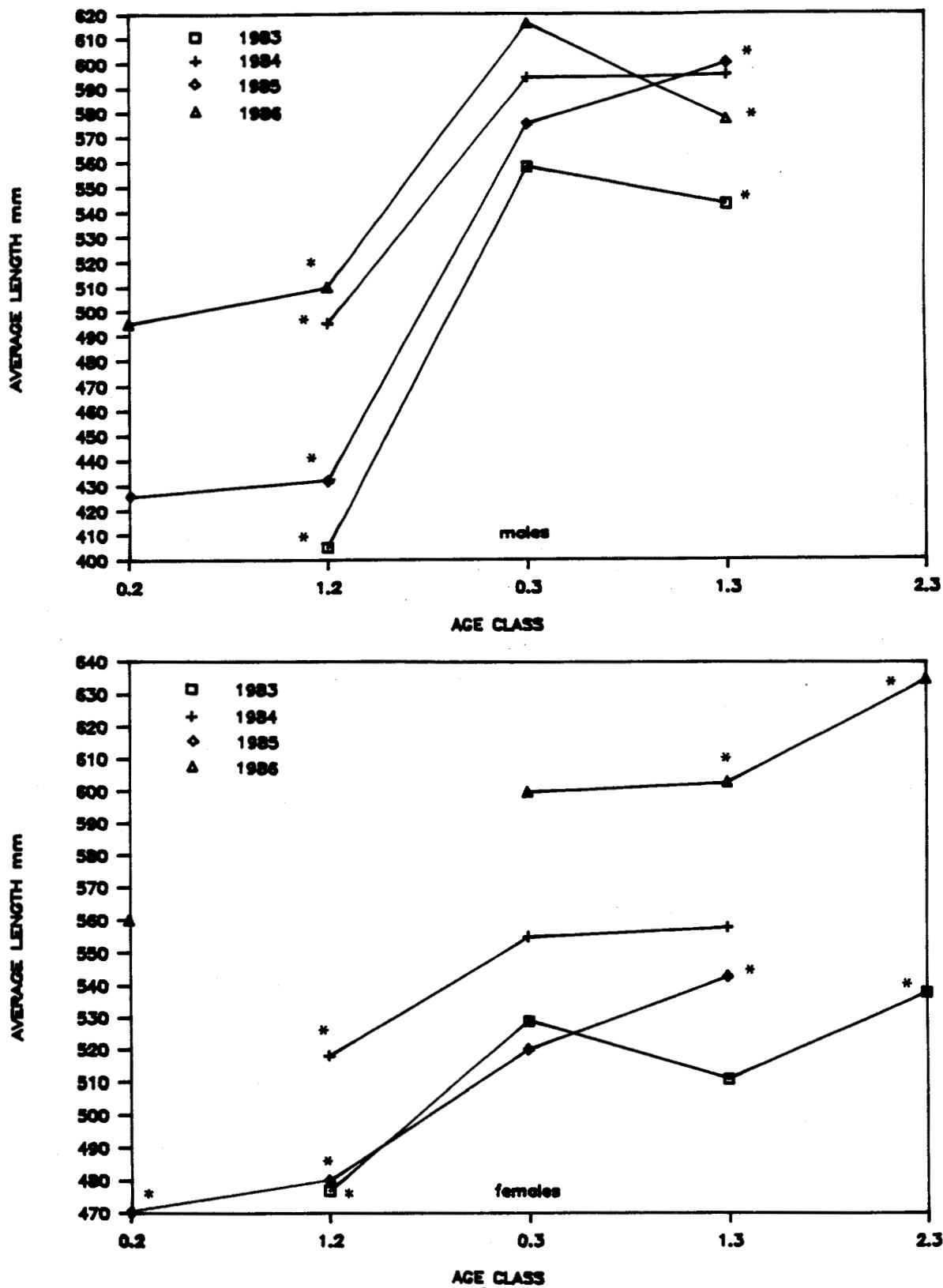


Figure 9. Average lengths of the Akwe River escapement of sockeye salmon by sex, age class, and year. Asterisk indicates sample size of less than 14.

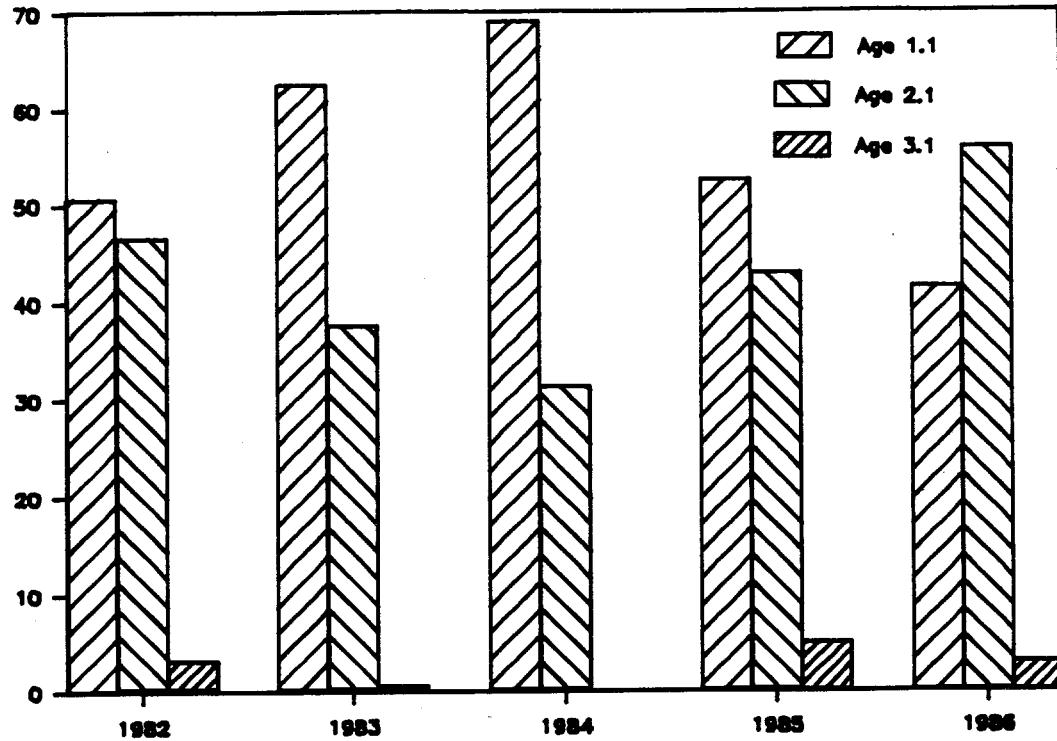


Figure 10. Age composition of the Situk River commercial catch of coho salmon by year.

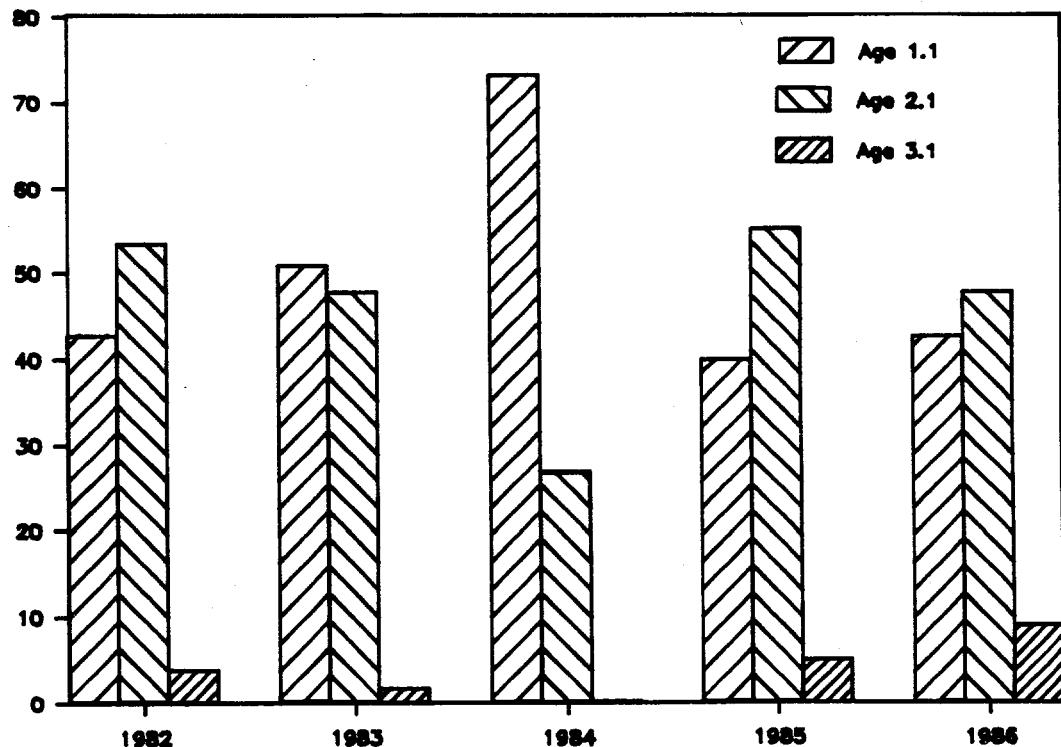


Figure 11. Age composition of the Tsiu River commercial catch of coho salmon by year.

APPENDICES

Appendix Table A1. Numbered calendar weeks (i.e., Stat Weeks) used to report commercial catches, 1986.

Week Number	From	To	Week Number	From	To
1	Jan 1	Jan 4	28	Jul 6	Jul 12
2	Jan 5	Jan 11	29	Jul 13	Jul 19
3	Jan 12	Jan 18	30	Jul 20	Jul 26
4	Jan 19	Jan 25	31	Jul 27	Aug 2
5	Jan 26	Feb 1	32	Aug 3	Aug 9
6	Feb 2	Feb 8	33	Aug 10	Aug 16
7	Feb 9	Feb 15	34	Aug 17	Aug 23
8	Feb 16	Feb 22	35	Aug 24	Aug 30
9	Feb 23	Mar 1	36	Aug 31	Sep 6
10	Mar 2	Mar 8	37	Sep 7	Sep 13
11	Mar 9	Mar 15	38	Sep 14	Sep 20
12	Mar 16	Mar 22	39	Sep 21	Sep 27
13	Mar 23	Mar 29	40	Sep 28	Oct 4
14	Mar 30	Apr 5	41	Oct 5	Oct 11
15	Apr 6	Apr 12	42	Oct 12	Oct 18
16	Apr 13	Apr 19	43	Oct 19	Oct 25
17	Apr 20	Apr 26	44	Oct 26	Nov 1
18	Apr 27	May 3	45	Nov 2	Nov 8
19	May 4	May 10	46	Nov 9	Nov 15
20	May 11	May 17	47	Nov 16	Nov 22
21	May 18	May 24	48	Nov 23	Nov 29
22	May 25	May 31	49	Nov 30	Dec 6
23	Jun 1	Jun 7	50	Dec 7	Dec 13
24	Jun 8	Jun 14	51	Dec 14	Dec 20
25	Jun 15	Jun 21	52	Dec 21	Dec 27
26	Jun 22	Jun 28	53	Dec 28	Dec 31
27	Jun 29	Jul 5			

Appendix Table A2. Sample size needed to describe the age composition of a three, four, five, six, or seven-age class population of increasing size with a precision of $\pm 5\%$ and a probability of 0.10.

Population Size	Sample Size Needed With The Following Number of Groups ¹					
	2	3	4	5	6	7
500	218	238	251	261	267	273
1,000	278	312	334	352	364	376
1,500	307	349	376	399	414	429
2,000	323	370	401	427	445	462
2,500	334	384	418	446	466	485
3,000	341	394	430	460	481	501
3,500	347	402	439	470	492	513
4,000	351	408	446	478	501	523
4,500	355	412	452	485	508	530
5,000	358	416	456	490	513	537
6,000	362	422	463	498	522	546
7,000	365	426	468	504	529	554
8,000	367	430	472	509	534	559
9,000	369	432	476	512	538	563
10,000	371	434	478	515	541	567
15,000	375	441	486	524	551	578
20,000	378	444	490	529	556	583
25,000	379	446	492	531	559	587
30,000	380	447	494	533	561	589
35,000	381	448	495	535	563	591
40,000	381	449	496	536	564	592
45,000	382	449	496	537	565	593
50,000	382	450	497	537	566	594
60,000	383	451	498	538	567	595
70,000	383	451	498	539	567	596
80,000	383	451	499	539	568	597
90,000	383	452	499	540	568	597
100,000	384	452	499	540	569	597
infinite	385	454	502	543	572	601

¹

Based on Cochran (1977) using the following formula:

$$n' = \frac{n_0}{1 + \frac{(n_0 - 1)}{N}}$$

Where: n' = adjusted sample size

n_0 = sample size needed for an infinitely large population

N = population size

Appendix Table B1. East Alsek River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986. 1/

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
27	6/29-7/05	48	18	54	482			
28	7/06-7/12	48	22	30	1,306	1		3
29	7/13-7/19	48	32	10	3,654	1		5
30 2/	7/20-7/26	48	34	5	5,424			
31 3/	7/27-8/02	24	52	4	17,508		68	15
32 4/	8/03-8/09	48	63	5	16,275	24	90	130
33	8/10-8/16	Closed						
34 5/	8/17-8/23	72	79	2	19,597	311	188	6,293
35 6/	8/24-8/30	72	45		9,149	939		3,818
36	8/31-9/06	72	29	1	1,424	1,029	2	2,828
37	9/07-9/13	72	9		115	316		482
38	9/14-9/20	72	5		38	202		743
TOTAL				111	74,972	2,823	348	14,317

- 1/ Statistical weeks 30 to 32, and 34 to 35 include harvest data from surf and ocean fisheries located near the mouth of the East Alsek River.
- 2/ 22 or 23 boats fished in-river, 11 or 12 boats fished surf. Ocean area not fished. In-river fishery harvested 50.5% of total sockeye salmon catch, surf fishery harvested 49.5%.
- 3/ 31 boats fished in-river, 11 boats fished surf, 10 boats fished ocean area. In-river catch equals 69.9% of sockeye salmon harvest, while surf catch equals 21.3%, and ocean catch equals 8.8%.
- 4/ Approximately 46 boats fished in-river, 9 fished surf, 19 fished ocean. In-river catch equals 79.2% of sockeye salmon harvest, while surf catch equals 11.7%, and ocean catch equals 9.1%.
- 5/ Approximately 54 boats fished in-river, 6 fished surf, 18 fished ocean. In-river catch equals 82.2% of sockeye salmon harvest, while surf catch equals 7.9%, and ocean catch equals 9.9%.
- 6/ Approximately 38 boats fished in-river, 3 fished surf, 5 fished ocean. In-river catch equals 90.3% of sockeye salmon harvest, while surf catch equals 6.9%, and ocean catch equals 2.8%.

Appendix Table B2. East Alsek River and Doame River escapement
of salmon, 1986. 1/

Area	Survey Dates	Survey				
		Chinook	Sockeye	Coho	Pink	Chum
East Alsek River	6/13	300	2/ 50			
	6/19	150	2/ 1,000			
	6/30	20	2/ 3,000			
	7/27		3,500			
	7/29		5,600			
	8/01		10,200			
	8/08		1,000			
	8/12		5,000			
	8/15		35,000			
	8/20		37,000			
	9/02		30,400			
	10/04		36,000			
	10/04		8,000	3/		
Doame River	10/31				800	

1/ Aerial Surveys unless otherwise noted.

2/ Chinook counts due primarily to straying of Alsek River fish.

3/ Foot survey. Only carcasses counted.

Appendix Table B3. Age composition of the East Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class		1981	1980	
		1.3	1.4	Total
Statistical Weeks	27 - 36		(June 29 - Sept. 6)	
Male				
Sample Number			0	
Percent			0.0	
Std. Error			0.0	
Number			0	
Female				
Sample Number	3	1	4	
Percent	75.0	25.0	100.0	
Std. Error	25.0	25.0	0.0	
Number	83	28	111	
All Fish				
Sample Number	3	1	4	
Percent	75.0	25.0	100.0	
Std. Error	25.0	25.0		
Number	83	28	111	

Appendix Table B4. Age composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class								
	1983		1982		1981		1980	
	0.2	0.3	1.2	1.3	2.2	2.3	3.2	Total
Statistical Week	27	(June 29 - July 5)						
Male								
Sample Number	27	14	3	7	1			52
Percent	26.2	13.6	2.9	6.8	1.0			50.5
Std. Error	4.4	3.4	1.7	2.5	1.0			5.0
Number	125	66	14	33	5			243
Female								
Sample Number	23	15	2	10	1			51
Percent	22.3	14.6	1.9	9.7	1.0			49.5
Std. Error	4.1	3.5	1.4	2.9	1.0			5.0
Number	108	70	9	47	5			239
All Fish								
Sample Number	50	29	5	17	2			103
Percent	48.5	28.2	4.9	16.5	1.9			100.0
Std. Error	4.9	4.5	2.1	3.7	1.4			
Number	233	136	23	80	10			482
Statistical Week	28	(July 6 - 12)						
Male								
Sample Number	37	35	6	13	5	5	1	102
Percent	22.2	21.0	3.6	7.8	3.0	3.0	0.6	61.1
Std. Error	3.2	3.2	1.4	2.1	1.3	1.3	0.6	3.8
Number	289	274	47	102	39	39	8	798
Female								
Sample Number	11	44	1	9				65
Percent	6.6	26.3	0.6	5.4				38.9
Std. Error	1.9	3.4	0.6	1.8				3.8
Number	86	344	8	70				508
All Fish								
Sample Number	48	79	7	22	5	5	1	167
Percent	28.7	47.3	4.2	13.2	3.0	3.0	0.6	100.0
Std. Error	3.5	3.9	1.6	2.6	1.3	1.3	0.6	
Number	375	618	55	172	39	39	8	1,306
Statistical Week	29	(July 13 - 19)						
Male								
Sample Number	50	38	7	4			1	100
Percent	28.9	22.0	4.0	2.3			0.6	57.8
Std. Error	3.5	3.2	1.5	1.1			0.6	3.8
Number	1,056	803	148	84			21	2,112
Female								
Sample Number	6	61	3	3				73
Percent	3.5	35.3	1.7	1.7				42.2
Std. Error	1.4	3.6	1.0	1.0				3.8
Number	127	1,289	63	63				1,542
All Fish								
Sample Number	56	99	10	7			1	173
Percent	32.4	57.2	5.8	4.0			0.6	100.0
Std. Error	3.6	3.8	1.8	1.5			0.6	
Number	1,183	2,092	211	147			21	3,654
Statistical Week	30	(July 20 - 26)						
Male								
Sample Number	9	66	8	6				89
Percent	5.6	41.0	5.0	3.7				55.3
Std. Error	1.8	3.9	1.7	1.5				3.9
Number	303	2,223	270	202				2,998
Female								
Sample Number	7	56		9				72
Percent	4.3	34.8		5.6				44.7
Std. Error	1.6	3.8		1.8				3.9
Number	236	1,887		303				2,426
All Fish								
Sample Number	16	122	8	15				161
Percent	9.9	75.8	5.0	9.3				100.0
Std. Error	2.4	3.4	1.7	2.3				
Number	539	4,110	270	505				5,424

-continued-

Appendix Table B4. Age composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

	Brood Year and Age Class								
	1983		1982		1981		1980		Total
	0.2	0.3	1.2	1.3	2.2	2.3	3.2		
Statistical Week	31	(July 27 - August 2)							
Male									
Sample Number	26	56	8	8					98
Percent	14.2	30.6	4.4	4.4					53.6
Std. Error	2.6	3.4	1.5	1.5					3.7
Number	2,487	5,358	765	765					9,375
Female									
Sample Number	5	71	1	7					85
Percent	2.7	38.8	0.5	3.8					46.4
Std. Error	1.2	3.6	0.5	1.4					3.7
Number	478	6,793	96	670					8,133
All Fish									
Sample Number	31	127	9	15					183
Percent	16.9	69.4	4.9	8.2					100.0
Std. Error	2.8	3.4	1.6	2.0					0.5
Number	2,965	12,151	861	1,435					17,508
Statistical Week	32	(August 3 - 9)							
Male									
Sample Number	13	58	6	9					86
Percent	7.5	33.5	3.5	5.2					49.7
Std. Error	2.0	3.6	1.4	1.7					3.8
Number	1,223	5,456	564	847					8,090
Female									
Sample Number	1	73	6	7					87
Percent	0.6	42.2	3.5	4.0					50.3
Std. Error	0.6	3.8	1.4	1.5					3.8
Number	94	6,868	564	659					8,185
All Fish									
Sample Number	14	131	12	16					173
Percent	8.1	75.7	6.9	9.2					100.0
Std. Error	2.1	3.3	1.9	2.2					0.5
Number	1,317	12,324	1,128	1,506					16,275
Statistical Weeks	34 - 38	(August 17 - Sept. 20)							
Male									
Sample Number	9	46	5	10	1				71
Percent	4.8	24.6	2.7	5.3	0.5				38.0
Std. Error	1.6	3.2	1.2	1.6	0.5				3.6
Number	1,459	7,459	811	1,622	162				11,513
Female									
Sample Number	6	94	8	6	1	1			116
Percent	3.2	50.3	4.3	3.2	0.5	0.5			62.0
Std. Error	1.3	3.7	1.5	1.3	0.5	0.5			3.6
Number	973	15,243	1,297	973	162	162			18,810
All Fish									
Sample Number	15	140	13	16	2	1			187
Percent	8.0	74.9	7.0	8.6	1.1	0.5			100.0
Std. Error	2.0	3.2	1.9	2.1	0.8	0.5			0.5
Number	2,432	22,702	2,108	2,595	324	162			30,323
Combined Periods (Percentages are weighted by period catches)									
Male									
Sample Number	171	313	43	57	7	6	1		598
Percent	9.3	28.9	3.5	4.9	0.3	0.1	<0.1		46.9
Std. Error	1.0	1.7	0.7	0.8	0.2	<0.1	<0.1		1.9
Number	6,945	21,638	2,619	3,655	206	60	8		35,131
Female									
Sample Number	59	414	21	51	2	2			549
Percent	2.8	43.3	2.7	3.7	0.2	0.3			53.1
Std. Error	0.6	1.9	0.7	0.7	0.2	0.3			1.9
Number	2,102	32,491	2,038	2,785	167	258			39,841
All Fish									
Sample Number	230	727	64	108	9	8	1		1,147
Percent	12.1	72.2	6.2	8.6	0.5	0.4	<0.1		100.0
Std. Error	1.2	1.7	1.0	1.1	0.3	0.3	<0.1		0.5
Number	9,047	54,129	4,657	6,440	373	318	8		74,972

Appendix Table B5. Age composition of the East Alsek River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class							
	1984	1983	1982	1981	1980		
	0.1	0.2	0.3	1.2	1.3	2.3	
Sampling Dates: (October 8)						Total	
Male							
Sample Number	2	69	113	5	11	1	201
Percent	0.4	13.3	21.8	1.0	2.1	0.2	38.7
Std. Error	0.3	1.5	1.8	0.4	0.6	0.2	2.1
Female							
Sample Number		99	192	5	21	1	318
Percent		19.1	37.0	1.0	4.0	0.2	61.3
Std. Error		1.7	2.1	0.4	0.9	0.2	2.1
All Fish							
Sample Number	2	168	305	10	32	2	519
Percent	0.4	32.4	58.8	1.9	6.2	0.4	100.0
Std. Error	0.3	2.1	2.2	0.6	1.1	0.3	

Appendix Table B6. Age composition of the East Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class				
	1983	1982	1981	1980	
	1.1	2.1	3.1	4.1	Total
Statistical Weeks	28	-	35	(July 6 - August 30)	
Male					
Sample Number	45	30	8		83
Percent	40.2	26.8	7.1		74.1
Std. Error	4.7	4.2	2.4		4.2
Number	513	342	91		946
Female					
Sample Number	10	19			29
Percent	8.9	17.0			25.9
Std. Error	2.7	3.6			4.2
Number	114	216			330
All Fish					
Sample Number	55	49	8		112
Percent	49.1	43.8	7.1		100.0
Std. Error	4.7	4.7	2.4		
Number	627	558	91		1,276
Statistical Weeks	36	-	38	(August 31 - Sept. 20)	
Male					
Sample Number	46	45	9	1	101
Percent	22.1	21.6	4.3	0.5	48.6
Std. Error	2.9	2.9	1.4	0.5	3.5
Number	342	335	67	7	751
Female					
Sample Number	60	41	6		107
Percent	28.8	19.7	2.9		51.4
Std. Error	3.1	2.8	1.2		3.5
Number	446	305	45		796
All Fish					
Sample Number	106	86	15	1	208
Percent	51.0	41.3	7.2	0.5	100.0
Std. Error	3.5	3.4	1.8	0.5	
Number	788	640	112	7	1,547
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	91	75	17	1	184
Percent	30.3	24.0	5.6	0.3	60.1
Std. Error	2.6	2.5	1.3	0.3	2.7
Number	855	677	158	7	1,697
Female					
Sample Number	70	60	6		136
Percent	19.8	18.5	1.6		39.9
Std. Error	2.1	2.2	0.6		2.7
Number	560	521	45		1,126
All Fish					
Sample Number	161	135	23	1	320
Percent	50.1	42.4	7.2	0.3	100.0
Std. Error	2.9	2.8	1.5	0.3	
Number	1,415	1,198	203	7	2,823

Appendix Table B7. Age composition of the East Alsek River commercial gill net catch of chum salmon, by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	0.2	0.3	0.4	0.5	Total
Statistical Weeks	28	-	34	(July 6 - August 23)	
Male					
Sample Number	1	76	25		102
Percent	0.5	40.6	13.4		54.5
Std. Error	0.5	3.6	2.5		3.7
Number	34	2,620	862		3,516
Female					
Sample Number	2	75	6	2	85
Percent	1.1	40.1	3.2	1.1	45.5
Std. Error	0.8	3.6	1.3	0.8	3.7
Number	69	2,585	207	69	2,930
All Fish					
Sample Number	3	151	31	2	187
Percent	1.6	80.7	16.6	1.1	100.0
Std. Error	0.9	2.9	2.7	0.8	
Number	103	5,205	1,069	69	6,446
Statistical Weeks	35	-	38	(August 24 - Sept. 20)	
Male					
Sample Number	5	82	10	1	98
Percent	2.7	45.1	5.5	0.5	53.8
Std. Error	1.2	3.7	1.7	0.5	3.7
Number	216	3,547	432	43	4,238
Female					
Sample Number	9	60	15		84
Percent	4.9	33.0	8.2		46.2
Std. Error	1.6	3.5	2.0		3.7
Number	389	2,595	649		3,633
All Fish					
Sample Number	14	142	25	1	182
Percent	7.7	78.0	13.7	0.5	100.0
Std. Error	2.0	3.1	2.6	0.5	
Number	605	6,142	1,081	43	7,871
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	6	158	35	1	200
Percent	1.8	43.1	9.0	0.3	54.2
Std. Error	0.7	2.6	1.5	0.3	2.6
Number	251	6,166	1,294	43	7,754
Female					
Sample Number	11	135	21	2	169
Percent	3.2	36.2	6.0	0.5	45.8
Std. Error	0.9	2.5	1.3	0.3	2.6
Number	458	5,180	856	69	6,563
All Fish					
Sample Number	17	293	56	3	369
Percent	5.0	79.2	15.0	0.8	100.0
Std. Error	1.2	2.1	1.9	0.5	
Number	709	11,346	2,150	112	14,317

Appendix Table B8. Length composition of the East Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class

1981 1980

1.3 1.4

Statistical Weeks 27 - 36 (June 29 - Sept. 6)

Male	Avg. Length		
	Std. Error		
	Sample Size		
 Female	Avg. Length	840.0	900.0
	Std. Error	5.8	
	Sample Size	3	1
 All Fish	Avg. Length	840.0	900.0
	Std. Error	5.8	
	Sample Size	3	1

Appendix Table B9. Length composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class							
		1983		1982		1981		1980	
		0.2	0.3	1.2		1.3	2.2		2.3
Statistical Week		27	(June 29 - July 5)						
Male	Avg. Length	508.0	580.0		570.0				
	Std. Error	17.1			20.0				
	Sample Size	5	1		2				
Female	Avg. Length	510.8	515.0		538.3				
	Std. Error	7.9			20.3				
	Sample Size	6	1		3				
All Fish	Avg. Length	509.5	547.5		551.0				
	Std. Error	8.4	32.5		14.9				
	Sample Size	11	2		5				
Statistical Week		28	(July 6 - 12)						
Male	Avg. Length	517.5	595.8		597.5		600.0		
	Std. Error	12.5		12.0	7.5				
	Sample Size	2	6		2				1
Female	Avg. Length		580.8		535.0				
	Std. Error		7.4						
	Sample Size		6		1				
All Fish	Avg. Length	517.5	588.3		576.7		600.0		
	Std. Error	12.5		7.1	21.3				
	Sample Size	2	12		3				1
Statistical Week		29	(July 13 - 19)						
Male	Avg. Length	526.7	573.3		540.0		550.0		
	Std. Error	6.0		22.4					
	Sample Size	6	3		1				1
Female	Avg. Length		570.0						
	Std. Error		8.3						
	Sample Size		6						
All Fish	Avg. Length	526.7	571.1		540.0		550.0		
	Std. Error	6.0		8.4					
	Sample Size	6	9		1				1
Statistical Week		30	(July 20 - 26)						
Male	Avg. Length	565.0	565.0		610.0				
	Std. Error	35.0		7.7					
	Sample Size	2	6						1
Female	Avg. Length		552.5		530.0				
	Std. Error		14.1						
	Sample Size		6		1				
All Fish	Avg. Length	565.0	558.8		570.0				
	Std. Error	35.0		7.9	40.0				
	Sample Size	2	12		2				

-Continued-

Appendix Table B9. Length composition of the East Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

		Brood Year and Age Class			
		1983	1982	1981	1980
		0.2	0.3	1.2	1.3
Statistical Week	31 (July 27 - August 2)				
Male	Avg. Length	571.4	490.0		
	Std. Error	5.5			
	Sample Size	7	1		
Female	Avg. Length	566.3			
	Std. Error	5.8			
	Sample Size	8			
All Fish	Avg. Length	568.7	490.0		
	Std. Error	3.9			
	Sample Size	15	1		
Statistical Week	32 (August 3 - 9)				
Male	Avg. Length	585.0		575.0	
	Std. Error	11.5			
	Sample Size	3		1	
Female	Avg. Length	572.5	560.0		
	Std. Error	4.0			
	Sample Size	12	1		
All Fish	Avg. Length	575.0	560.0	575.0	
	Std. Error	4.0			
	Sample Size	15	1	1	
Statistical Weeks	34 - 38 (August 17 - Sept. 20)				
Male	Avg. Length	597.5		572.5	520.0
	Std. Error	9.2		17.5	
	Sample Size	4		2	1
Female	Avg. Length	564.2			
	Std. Error	3.8			
	Sample Size	12			
All Fish	Avg. Length	572.5		572.5	520.0
	Std. Error	5.1		17.5	
	Sample Size	16		2	1
Combined Periods (Unweighted)					
Male	Avg. Length	524.3	580.3	515.0	579.4
	Std. Error	8.3	4.4	25.0	7.7
	Sample Size	15	30	2	9
Female	Avg. Length	510.8	566.8	560.0	536.0
	Std. Error	7.9	2.9		11.2
	Sample Size	6	51	1	5
All Fish	Avg. Length	520.5	571.8	530.0	563.9
	Std. Error	6.4	2.5	20.8	8.4
	Sample Size	21	81	3	14
					1
					1

Appendix Table B10. Length composition of the East Alsek River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class						
	1984	1983	1982	1981	1980	
	0.1	0.2	0.3	1.2	1.3	2.3
Sampling Dates: (October 8)						
Male	Avg. Length	347.5	491.3	585.8	476.0	587.7
	Std. Error	42.5	4.6	2.5	20.9	8.2
	Sample Size	2	66	113	5	11
Female	Avg. Length		493.0	561.4	510.0	560.2
	Std. Error		2.6	1.6	23.1	4.9
	Sample Size		99	189	5	21
All Fish	Avg. Length	347.5	492.3	570.5	493.0	569.7
	Std. Error	42.5	2.4	1.5	15.7	4.8
	Sample Size	2	165	302	10	32

Appendix Table B11. Length composition of the East Alsek commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
		1983	1982	1981	1980
		1.1	2.1	3.1	4.1
Statistical Weeks 28 - 35 (July 6 - August 30)					
Male	Avg. Length	594.2	575.8		
	Std. Error	9.9	18.6		
	Sample Size	6	6		
Female	Avg. Length	607.5	560.0		
	Std. Error	32.5			
	Sample Size	2	1		
All Fish	Avg. Length	597.5	573.6		
	Std. Error	9.7	15.9		
	Sample Size	8	7		
Statistical Weeks 36 - 38 (August 31 - Sept. 20)					
Male	Avg. Length	600.0	583.3	680.0	615.0
	Std. Error	19.6	39.3	17.6	
	Sample Size	5	3	3	1
Female	Avg. Length	627.9	660.0		
	Std. Error	14.9	17.7		
	Sample Size	7	4		
All Fish	Avg. Length	616.3	627.1	680.0	615.0
	Std. Error	12.1	23.4	17.6	
	Sample Size	12	7	3	1
Combined Periods (Unweighted)					
Male	Avg. Length	596.8	578.3	680.0	615.0
	Std. Error	9.8	16.6	17.6	
	Sample Size	11	9	3	1
Female	Avg. Length	623.3	640.0		
	Std. Error	13.0	24.2		
	Sample Size	9	5		
All Fish	Avg. Length	608.8	600.4	680.0	615.0
	Std. Error	8.3	15.5	17.6	
	Sample Size	20	14	3	1

Appendix Table B12. Length composition of the East Alsek River commercial gill net catch of chum salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
		1983	1982	1981	
		0.2	0.3	0.4	
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Statistical Weeks	28 - 34	(July 6 - August 23)			
Male	Avg. Length	625.0	670.0		
	Std. Error	15.1			
	Sample Size	7	1		
Female	Avg. Length	580.0	602.5		
	Std. Error		8.0		
	Sample Size	1	10		
All Fish	Avg. Length	580.0	611.8	670.0	
	Std. Error		8.0		
	Sample Size	1	17	1	
<hr/>					
Statistical Weeks	35 - 38	(August 24 - Sept. 20)			
Male	Avg. Length	616.4			
	Std. Error	14.0			
	Sample Size	7			
Female	Avg. Length	577.5			
	Std. Error	12.5			
	Sample Size	2			
All Fish	Avg. Length	607.8			
	Std. Error	12.3			
	Sample Size	9			
<hr/>					
Combined Periods (Unweighted)					
Male	Avg. Length	620.7	670.0		
	Std. Error	10.0			
	Sample Size	14	1		
Female	Avg. Length	580.0	598.3		
	Std. Error		7.4		
	Sample Size	1	12		
All Fish	Avg. Length	580.0	610.4	670.0	
	Std. Error		6.6		
	Sample Size	1	26	1	
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Appendix Table C1. Alsek River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
25	6/15-6/21	48	23	274	1,196			
26	6/22-6/28	48	23	146	2,240			
27	6/29-7/05	48	23	42	4,071			
28	7/06-7/12	48	26	13	2,277			
29	7/12-7/19	48	22	3	2,605			
30	7/20-7/26	48	18		2,783			
31	7/27-8/02	48	21		4,053	1	1	
32	8/03-8/09	72	22		4,259	3		15
33	8/10-8/16	72	7		761	9		
34	8/17-8/23	72	10		469	82	11	93
35	8/24-8/30	72	3		40	89	1	23
36	8/31-9/06	72	8		22	391		92
37	9/07-9/13	72	11		13	483		146
38	9/14-9/20	48	11		2	286		93
TOTAL				478	24,791	1,344	13	462

Appendix Table C2. Alsek River escapement of salmon, 1986. 1/

Area	Survey Dates	Chinook			Coho	Pink	Chum
			Sockeye				
Tatshenshine R. Drainage:							
Klukshu Weir	6/01-10/24	2,708	24,880		62		
Klukshu R. 2/	8/03	738					
	9/26				180		
Blanchard Ck. 2/	8/02	556					
Takhanni R. 2/	8/03	358					
Lower Alsek R. Drainage:							
Cabin Ck.	10/31				400		
Basin Ck.	8/15		100				
Tanis R.	8/15		2,700				
Cannery Ck.	10/31				250		
Goat Ck. 2/	8/02	142					
Muddy Ck.	7/22		300				
Emile Ck.	9/26				180		
Williams Ck.	9/26				30		
Gines Ck.	10/31				250		

1/ Aerial surveys unless otherwise noted.

2/ Helicopter survey.

Appendix Table C3. Klukshu River daily escapement of chinook salmon through Klukshu weir, and associated statistics, 1986. 1/

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July 5	1	1	0.0004	0.0004
July 6	4	5	0.0015	0.0018
July 7	0	5	0.0000	0.0018
July 8	2	7	0.0007	0.0026
July 9	4	11	0.0015	0.0041
July 10	2	13	0.0007	0.0048
July 11	5	18	0.0018	0.0066
July 12	17	35	0.0063	0.0129
July 13	20	55	0.0074	0.0203
July 14	9	64	0.0033	0.0236
July 15	78	142	0.0288	0.0524
July 16	623	765	0.2301	0.2825
July 17	520	1,285	0.1920	0.4745
July 18	323	1,608	0.1193	0.5938
July 19	95	1,703	0.0351	0.6289
July 20	50	1,753	0.0185	0.6473
July 21	41	1,794	0.0151	0.6625
July 22	76	1,870	0.0281	0.6905
July 23	408	2,278	0.1507	0.8412
July 24	25	2,303	0.0092	0.8504
July 25	30	2,333	0.0111	0.8615
July 26	11	2,344	0.0041	0.8656
July 27	17	2,361	0.0063	0.8719
July 28	22	2,383	0.0081	0.8800
July 29	17	2,400	0.0063	0.8863
July 30	29	2,429	0.0107	0.8970
July 31	27	2,456	0.0100	0.9069
Aug. 1	17	2,473	0.0063	0.9132
Aug. 2	28	2,501	0.0103	0.9236
Aug. 3	37	2,538	0.0137	0.9372
Aug. 4	52	2,590	0.0192	0.9564
Aug. 5	12	2,602	0.0044	0.9609
Aug. 6	3	2,605	0.0011	0.9620
Aug. 7	10	2,615	0.0037	0.9657
Aug. 8	13	2,628	0.0048	0.9705
Aug. 9	11	2,639	0.0041	0.9745
Aug. 10	12	2,651	0.0044	0.9790
Aug. 11	2	2,653	0.0007	0.9797
Aug. 12	10	2,663	0.0037	0.9834
Aug. 13	16	2,679	0.0059	0.9893
Aug. 14	9	2,688	0.0033	0.9926
Aug. 15	3	2,691	0.0011	0.9937
Aug. 16	1	2,692	0.0004	0.9941
Aug. 17	0	2,692	0.0000	0.9941
Aug. 18	4	2,696	0.0015	0.9956
Aug. 19	0	2,696	0.0000	0.9956
Aug. 20	2	2,698	0.0007	0.9963
Aug. 21	1	2,699	0.0004	0.9967
Aug. 22	0	2,699	0.0000	0.9967
Aug. 23	0	2,699	0.0000	0.9967
Aug. 24	0	2,699	0.0000	0.9967
Aug. 25	0	2,699	0.0000	0.9967
Aug. 26	0	2,699	0.0000	0.9967
Aug. 27	0	2,699	0.0000	0.9967
Aug. 28	5	2,704	0.0018	0.9985
Aug. 29	1	2,705	0.0004	0.9989
Aug. 30	0	2,705	0.0000	0.9989
Aug. 31	0	2,705	0.0000	0.9989
Sept. 1	2	2,707	0.0007	0.9996
Sept. 2	0	2,707	0.0000	0.9996
Sept. 3	0	2,707	0.0000	0.9996
Sept. 4	0	2,707	0.0000	0.9996
Sept. 5	1	2,708	0.0004	1.0000

Mean Day of Migration = July 21 Variance = 48.0 Days squared

1/ Klukshu weir was operated from June 1 to October 24, 1986.

Appendix Table C4. Klukshu River daily escapement of sockeye salmon through Klukshu weir, and associated statistics, 1986. 1/

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July 7	1	1	0.0000	0.0000
July 8	2	3	0.0001	0.0001
July 9	2	5	0.0001	0.0002
July 10	9	14	0.0004	0.0006
July 11	12	26	0.0005	0.0010
July 12	17	43	0.0007	0.0017
July 13	14	57	0.0006	0.0023
July 14	10	67	0.0004	0.0027
July 15	7	74	0.0003	0.0030
July 16	64	138	0.0026	0.0055
July 17	115	253	0.0046	0.0102
July 18	28	281	0.0011	0.0113
July 19	13	294	0.0005	0.0118
July 20	6	300	0.0002	0.0121
July 21	3	303	0.0001	0.0122
July 22	2	305	0.0001	0.0123
July 23	12	317	0.0005	0.0127
July 24	3	320	0.0001	0.0129
July 25	0	320	0.0000	0.0129
July 26	3	323	0.0001	0.0130
July 27	1	324	0.0000	0.0130
July 28	0	324	0.0000	0.0130
July 29	0	324	0.0000	0.0130
July 30	7	331	0.0003	0.0133
July 31	2	333	0.0001	0.0134
Aug. 1	1	334	0.0000	0.0134
Aug. 2	2	336	0.0001	0.0135
Aug. 3	2	338	0.0001	0.0136
Aug. 4	4	342	0.0002	0.0137
Aug. 5	1	343	0.0000	0.0138
Aug. 6	0	343	0.0000	0.0138
Aug. 7	2	345	0.0001	0.0139
Aug. 8	4	349	0.0002	0.0140
Aug. 9	1	350	0.0000	0.0141
Aug. 10	8	358	0.0003	0.0144
Aug. 11	8	366	0.0003	0.0147
Aug. 12	1	367	0.0000	0.0148
Aug. 13	28	395	0.0011	0.0159
Aug. 14	21	416	0.0008	0.0167
Aug. 15	12	428	0.0005	0.0172
Aug. 16	0	428	0.0000	0.0172
Aug. 17	4	432	0.0002	0.0174
Aug. 18	16	448	0.0006	0.0180
Aug. 19	10	458	0.0004	0.0184
Aug. 20	9	467	0.0004	0.0188
Aug. 21	2	469	0.0001	0.0189
Aug. 22	0	469	0.0000	0.0189
Aug. 23	6	475	0.0002	0.0191
Aug. 24	0	475	0.0000	0.0191
Aug. 25	12	487	0.0005	0.0196
Aug. 26	19	506	0.0008	0.0203
Aug. 27	5,054	5,560	0.2031	0.2235

-Continued-

Appendix Table C4. Klukshu River daily escapement of sockeye salmon through Klukshu weir, and associated statistics, 1986 (continued). 1/

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Aug. 28	3,616	9,176	0.1453	0.3688
Aug. 29	1,985	11,161	0.0798	0.4486
Aug. 30	234	11,395	0.0094	0.4580
Aug. 31	778	12,173	0.0313	0.4893
Sept. 1	3,287	15,460	0.1321	0.6214
Sept. 2	866	16,326	0.0348	0.6562
Sept. 3	2,523	18,849	0.1014	0.7576
Sept. 4	1,036	19,885	0.0416	0.7992
Sept. 5	253	20,138	0.0102	0.8094
Sept. 6	12	20,150	0.0005	0.8099
Sept. 7	0	20,150	0.0000	0.8099
Sept. 8	41	20,191	0.0016	0.8115
Sept. 9	0	20,191	0.0000	0.8115
Sept. 10	8	20,199	0.0003	0.8119
Sept. 11	0	20,199	0.0000	0.8119
Sept. 12	0	20,199	0.0000	0.8119
Sept. 13	0	20,199	0.0000	0.8119
Sept. 14	0	20,199	0.0000	0.8119
Sept. 15	30	20,229	0.0012	0.8131
Sept. 16	51	20,280	0.0020	0.8151
Sept. 17	167	20,447	0.0067	0.8218
Sept. 18	157	20,604	0.0063	0.8281
Sept. 19	0	20,604	0.0000	0.8281
Sept. 20	42	20,646	0.0017	0.8298
Sept. 21	1,304	21,950	0.0524	0.8822
Sept. 22	33	21,983	0.0013	0.8836
Sept. 23	1,667	23,650	0.0670	0.9506
Sept. 24	186	23,836	0.0075	0.9580
Sept. 25	4	23,840	0.0002	0.9582
Sept. 26	1	23,841	0.0000	0.9582
Sept. 27	0	23,841	0.0000	0.9582
Sept. 28	2	23,843	0.0001	0.9583
Sept. 29	9	23,852	0.0004	0.9587
Sept. 30	5	23,857	0.0002	0.9589
Oct. 1	22	23,879	0.0009	0.9598
Oct. 2	56	23,935	0.0023	0.9620
Oct. 3	767	24,702	0.0308	0.9928
Oct. 4	148	24,850	0.0059	0.9988
Oct. 5	3	24,853	0.0001	0.9989
Oct. 6	1	24,854	0.0000	0.9990
Oct. 7	0	24,854	0.0000	0.9990
Oct. 8	1	24,855	0.0000	0.9990
Oct. 9	7	24,862	0.0003	0.9993
Oct. 10	0	24,862	0.0000	0.9993
Oct. 11	1	24,863	0.0000	0.9993
Oct. 12	0	24,863	0.0000	0.9993
Oct. 13	1	24,864	0.0000	0.9994
Oct. 14	9	24,873	0.0004	0.9997
Oct. 15	3	24,876	0.0001	0.9998
Oct. 16	0	24,876	0.0000	0.9998
Oct. 17	1	24,877	0.0000	0.9999
Oct. 18	0	24,877	0.0000	0.9999
Oct. 19	2	24,879	0.0001	1.0000
Oct. 20	0	24,879	0.0000	1.0000
Oct. 21	1	24,880	0.0000	1.0000

Mean Day of Migration = Sept. 3 Variance = 141.9 Days squared

1/ Klukshu weir was operated from June 1 to October 24, 1986.

Appendix Table C5. Klukshu River daily escapement of coho salmon through Klukshu weir, and associated statistics, 1986. 1/

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Sept. 17	2	2	0.0323	0.0323
Sept. 18	0	2	0.0000	0.0323
Sept. 19	0	2	0.0000	0.0323
Sept. 20	0	2	0.0000	0.0323
Sept. 21	0	2	0.0000	0.0323
Sept. 22	0	2	0.0000	0.0323
Sept. 23	2	4	0.0323	0.0645
Sept. 24	17	21	0.2742	0.3387
Sept. 25	0	21	0.0000	0.3387
Sept. 26	0	21	0.0000	0.3387
Sept. 27	0	21	0.0000	0.3387
Sept. 28	0	21	0.0000	0.3387
Sept. 29	1	22	0.0161	0.3548
Sept. 30	0	22	0.0000	0.3548
Oct. 1	0	22	0.0000	0.3548
Oct. 2	0	22	0.0000	0.3548
Oct. 3	25	47	0.4032	0.7581
Oct. 4	3	50	0.0484	0.8065
Oct. 5	1	51	0.0161	0.8226
Oct. 6	0	51	0.0000	0.8226
Oct. 7	0	51	0.0000	0.8226
Oct. 8	2	53	0.0323	0.8548
Oct. 9	0	53	0.0000	0.8548
Oct. 10	1	54	0.0161	0.8710
Oct. 11	0	54	0.0000	0.8710
Oct. 12	1	55	0.0161	0.8871
Oct. 13	1	56	0.0161	0.9032
Oct. 14	0	56	0.0000	0.9032
Oct. 15	0	56	0.0000	0.9032
Oct. 16	0	56	0.0000	0.9032
Oct. 17	0	56	0.0000	0.9032
Oct. 18	1	57	0.0161	0.9194
Oct. 19	1	58	0.0161	0.9355
Oct. 20	4	62	0.0645	1.0000

Mean Day of Migration = Oct. 2 Variance = 63.7 Days squared

1/ Klukshu weir was operated from June 1 to October 24, 1986.

Appendix Table C6. Age composition of the Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class							
	1983		1982		1981		1980	
	1.1	0.3	1.2	0.4	1.3	1.4	Total	
Statistical Weeks	25	-	29	(June 15 - July 19)				
Male								
Sample Number	1	2	43		50	5	101	
Percent	0.6	1.2	26.5		30.9	3.1	62.3	
Std. Error	0.6	0.9	3.5		3.6	1.4	3.8	
Number	3	6	126		146	15	296	
Female								
Sample Number		14	1	41	5		61	
Percent		8.6	0.6	25.3	3.1		37.7	
Std. Error		2.2	0.6	3.4	1.4		3.8	
Number		41	3	120	15		179	
All Fish 1/								
Sample Number	1	2	57	1	92	10	163	
Percent	0.6	1.2	35.0	0.6	56.4	6.1	100.0	
Std. Error	0.6	0.9	3.7	0.6	3.9	1.9		
Number	3	6	167	3	269	30	478	

1/ Contains unsexed fish in totals.

Appendix Table C7. Age composition of the Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class								
	1983		1982		1981		1980	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
Statistical Week	25	(June 15 - 21)						
Male								
Sample Number			2	44			7	53
Percent			1.1	23.5			3.7	28.3
Std. Error			0.8	3.1			1.4	3.3
Number			13	281			45	339
Female								
Sample Number			4	109			21	134
Percent			2.1	58.3			11.2	71.7
Std. Error			1.1	3.6			2.3	3.3
Number			26	697			134	857
All Fish								
Sample Number			6	153			28	187
Percent			3.2	81.8			15.0	100.0
Std. Error			1.3	2.8			2.6	
Number			39	978			179	1,196
Statistical Week	26	(June 22 - 28)						
Male								
Sample Number		10	5	82	3	1	11	112
Percent		4.4	2.2	36.3	1.3	0.4	4.9	49.6
Std. Error		1.4	1.0	3.2	0.8	0.4	1.4	3.3
Number		99	50	812	30	10	109	1,110
Female								
Sample Number		9	3	94			8	114
Percent		4.0	1.3	41.6			3.5	50.4
Std. Error		1.3	0.8	3.3			1.2	3.3
Number		89	30	932			79	1,130
All Fish								
Sample Number		19	8	176	3	1	19	226
Percent		8.4	3.5	77.9	1.3	0.4	8.4	100.0
Std. Error		1.8	1.2	2.8	0.8	0.4	1.8	
Number		188	80	1,744	30	10	188	2,240
Statistical Week	27	(June 29 - July 5)						
Male								
Sample Number		8	6	95	2		13	124
Percent		3.4	2.5	39.9	0.8		5.5	52.1
Std. Error		1.2	1.0	3.2	0.6		1.5	3.2
Number		137	103	1,625	34		222	2,121
Female								
Sample Number		2	6	88	1		17	114
Percent		0.8	2.5	37.0	0.4		7.1	47.9
Std. Error		0.6	1.0	3.1	0.4		1.7	3.2
Number		34	103	1,505	17		291	1,950
All Fish								
Sample Number		10	12	183	3		30	238
Percent		4.2	5.0	76.9	1.3		12.6	100.0
Std. Error		1.3	1.4	2.7	0.7		2.2	
Number		171	206	3,130	51		513	4,071
Statistical Weeks	28 - 29	(July 6 - 19)						
Male								
Sample Number		2	6	17	64	2	4	95
Percent		1.2	3.5	9.8	37.0	1.2	2.3	54.9
Std. Error		0.8	1.4	2.3	3.7	0.8	1.1	3.8
Number		56	169	480	1,806	56	113	2,680
Female								
Sample Number		8	4	57	1		8	78
Percent		4.6	2.3	32.9	0.6		4.6	45.1
Std. Error		1.6	1.1	3.6	0.6		1.6	3.8
Number		226	113	1,609	28		226	2,202
All Fish								
Sample Number		2	14	21	121	3	12	173
Percent		1.2	8.1	12.1	69.9	1.7	6.9	100.0
Std. Error		0.8	2.1	2.5	3.5	1.0	1.9	
Number		56	395	593	3,415	84	339	4,882

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Appendix Table C7. Age composition of the Alsek River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986, (continued).

	Brood Year and Age Class								
	1983		1982		1981		1980		
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total	
Statistical Weeks	30	-	31	(July 20 - August 2)					
Male									
Sample Number	13	15	36	111	5		3	183	
Percent	4.0	4.6	11.0	33.8	1.5		0.9	55.8	
Std. Error	1.1	1.2	1.7	2.6	0.7		0.5	2.7	
Number	271	313	750	2,313	104		63	3,814	
Female									
Sample Number		16	25	96	2	1	5	145	
Percent		4.9	7.6	29.3	0.6	0.3	1.5	44.2	
Std. Error		1.2	1.5	2.5	0.4	0.3	0.7	2.7	
Number		333	521	2,001	42	21	104	3,022	
All Fish									
Sample Number	13	31	61	207	7	1	8	328	
Percent	4.0	9.5	18.6	63.1	2.1	0.3	2.4	100.0	
Std. Error	1.1	1.6	2.2	2.7	0.8	0.3	0.9		
Number	271	646	1,271	4,314	146	21	167	6,836	
Statistical Week	32	(August 3 - 9)							
Male									
Sample Number	2	8	39	56	2		3	110	
Percent	0.9	3.4	16.7	23.9	0.9		1.3	47.0	
Std. Error	0.6	1.2	2.4	2.8	0.6		0.7	3.3	
Number	36	146	710	1,019	36		55	2,002	
Female									
Sample Number		9	19	84	2	1	9	124	
Percent		3.8	8.1	35.9	0.9	0.4	3.8	53.0	
Std. Error		1.3	1.8	3.1	0.6	0.4	1.3	3.3	
Number		164	346	1,529	36	18	164	2,257	
All Fish									
Sample Number	2	17	58	140	4	1	12	234	
Percent	0.9	7.3	24.8	59.8	1.7	0.4	5.1	100.0	
Std. Error	0.6	1.7	2.8	3.2	0.8	0.4	1.4		
Number	36	310	1,056	2,548	72	18	219	4,259	
Statistical Weeks	33	-	38	(August 10 - Sept. 20)					
Male									
Sample Number	4	3	51	23	6		7	94	
Percent	1.5	1.1	19.5	8.8	2.3		2.7	36.0	
Std. Error	0.8	0.7	2.5	1.8	0.9		1.0	3.0	
Number	20	15	256	115	30		35	471	
Female									
Sample Number	1	14	47	91	3		11	167	
Percent	0.4	5.4	18.0	34.9	1.1		4.2	64.0	
Std. Error	0.4	1.4	2.4	3.0	0.7		1.2	3.0	
Number	5	70	235	456	15		55	836	
All Fish									
Sample Number	5	17	98	114	9		18	261	
Percent	1.9	6.5	37.5	43.7	3.4		6.9	100.0	
Std. Error	0.9	1.5	3.0	3.1	1.1		1.6		
Number	25	85	491	571	45		90	1,307	
Combined Periods (Percentages are weighted by period catches)									
Male									
Sample Number	21	50	156	475	20	1	48	771	
Percent	1.5	3.5	9.5	32.2	1.2	<0.1	2.6	50.6	
Std. Error	0.4	0.5	0.8	1.3	0.3	<0.1	0.4	1.4	
Number	384	879	2,360	7,973	291	10	641	12,538	
Female									
Sample Number	1	58	108	619	9	2	79	876	
Percent	<0.1	3.7	5.5	35.2	0.6	0.2	4.2	49.4	
Std. Error	<0.1	0.5	0.6	1.3	0.2	0.1	0.5	1.4	
Number	5	917	1,373	8,728	138	39	1,053	12,253	
All Fish									
Sample Number	22	108	264	1,094	29	3	127	1,647	
Percent	1.6	7.2	15.1	67.4	1.7	0.2	6.8	100.0	
Std. Error	0.4	0.7	1.0	1.3	0.4	0.1	0.7		
Number	389	1,796	3,733	16,701	429	49	1,694	24,791	

Appendix Table C8. Age composition of the Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class				
	1983	1982	1981	1980
	1.1	2.1	3.1	4.1
Statistical Weeks	31	-	38	(July 27 - Sept. 20)
Male				
Sample Number	28	85	10	123
Percent	13.0	39.4	4.6	56.9
Std. Error	2.3	3.3	1.4	3.4
Number	173	523	62	758
Female				
Sample Number	22	61	9	1
Percent	10.2	28.2	4.2	0.5
Std. Error	2.1	3.1	1.4	0.5
Number	136	376	55	573
All Fish 1/				
Sample Number	50	147	20	1
Percent	22.9	67.4	9.2	0.5
Std. Error	2.9	3.2	2.0	0.5
Number	308	906	123	1,344

1/ Contains unsexed fish in totals.

Appendix Table C9. Length composition of the Alsek River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1983	1982	1981	1980	
		1.1	0.3	1.2	0.4	1.4
Statistical Weeks 25 - 29 (June 15 - July 19)						
Male	Avg. Length	550.0	750.0	612.7	815.4	929.0
	Std. Error		160.0	18.3	22.1	26.6
	Sample Size	1	2	43	50	5
Female	Avg. Length			707.1	985.0	821.8
	Std. Error			30.9		8.8
	Sample Size			14	1	41
All Fish	Avg. Length	550.0	750.0	635.9	985.0	818.3
	Std. Error		160.0	16.6		12.7
	Sample Size	1	2	57	1	91
						10

Appendix Table C10. Length composition of the Alsek River commercial gill net catch of sockeye salmon by sex, age class and fishing period, 1986.

		Brood Year and Age Class				
		1983	1982	1981	1980	
		0.2	0.3	1.2	1.3	
Statistical Week		25	(June 15 - 21)			
Male	Avg. Length		472.5	569.0		
	Std. Error		32.5	9.5		
	Sample Size		2	5		
Female	Avg. Length		537.6	565.0		
	Std. Error		5.2	5.0		
	Sample Size		17	2		
All Fish	Avg. Length		472.5	544.8	565.0	
	Std. Error		32.5	5.3	5.0	
	Sample Size		2	22	2	
Statistical Week		26	(June 22 - 28)			
Male	Avg. Length	590.0	450.0	587.5	595.0	
	Std. Error			7.7		
	Sample Size	1	1	8	2	
Female	Avg. Length	570.0	530.0	559.2	540.0	
	Std. Error	17.3		7.2		
	Sample Size	3	1	6	1	
All Fish	Avg. Length	575.0	490.0	575.4	576.7	
	Std. Error	13.2	40.0	6.5	18.3	
	Sample Size	4	2	14	3	
Statistical Week		27	(June 29 - July 5)			
Male	Avg. Length		560.0	584.2	575.0	
	Std. Error			5.5		
	Sample Size		1	18	1	
Female	Avg. Length	590.0		501.4	597.5	
	Std. Error			47.3	12.5	
	Sample Size	1		15	2	
All Fish	Avg. Length	590.0	560.0	546.5	590.0	
	Std. Error			22.5	10.4	
	Sample Size	1	1	33	3	
Statistical Weeks		28 - 29	(July 6 - 19) 1/			

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Appendix Table C10. Length composition of the Alsek River commercial gill net catch of sockeye salmon by sex, age class and fishing period, 1986 (continued).

Statistical Weeks		30	-	31	(July 20 - August 2)
Male	Avg. Length	550.0		548.3	576.8
	Std. Error	50.0		25.9	6.9
	Sample Size	2		3	11
Female	Avg. Length	563.8		535.0	554.4
	Std. Error	9.0		5.0	6.0
	Sample Size	4		2	9
All Fish	Avg. Length	559.2		543.0	566.8
	Std. Error	14.4		14.6	5.2
	Sample Size	6		5	20
Statistical Week		32	(August 3 - 9)		
Male	Avg. Length	570.0	600.0	595.0	591.7
	Std. Error		1	1	4.4
	Sample Size		1	1	3
Female	Avg. Length	577.5		561.7	546.7
	Std. Error	7.5		9.3	12.6
	Sample Size	2		3	15
All Fish	Avg. Length	570.0	585.0	570.0	554.2
	Std. Error		8.7	10.6	11.2
	Sample Size	1	3	4	18
Statistical Weeks		33	-	38	(August 10 - Sept. 20)
Male	Avg. Length	565.0	569.0	582.5	
	Std. Error			31.3	27.5
	Sample Size		1	5	2
Female	Avg. Length	585.0	550.0	563.8	
	Std. Error			26.5	4.5
	Sample Size		1	3	13
All Fish	Avg. Length	575.0	561.9	566.3	
	Std. Error	10.0		20.9	5.0
	Sample Size	2		8	15
Combined Periods (Unweighted)					
Male	Avg. Length	570.0	571.0	541.5	581.8
	Std. Error		18.9	18.0	3.3
	Sample Size	1	5	13	47
Female	Avg. Length	572.3	548.3	540.5	573.0
	Std. Error	5.8		9.1	10.0
	Sample Size	11		9	75
All Fish	Avg. Length	570.0	571.9	544.3	556.4
	Std. Error		6.7	11.1	6.5
	Sample Size	1	16	22	122

1/ No length data collected.

Appendix Table C11. Length composition of the Alsek River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class				
	1983	1982	1981	1980
	-----	-----	-----	-----
	1.1	2.1	3.1	4.1
<hr/>				
Statistical Weeks	31	-	38	(July 27 - Sept. 20)
<hr/>				
Male	Avg. Length	615.0	631.9	625.0
	Std. Error	15.0	17.3	
	Sample Size	2	8	1
<hr/>				
Female	Avg. Length	619.0	657.0	575.0
	Std. Error	11.0	11.1	
	Sample Size	5	5	1
<hr/>				
All Fish	Avg. Length	617.9	641.5	625.0
	Std. Error	8.3	11.7	
	Sample Size	7	13	1

Appendix Table C12. Age composition of the Klukshu River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

	Brood Year and Age Class					
	1982 0.3	1982 1.2	1981 1.3	1981 2.2	1980 2.3	Total
Escapement Dates:	(July 6 - August 23)					
Male						
Sample Number	10	3	53		3	66
Percent	9.0	2.7	47.7		2.7	59.5
Std. Error	2.7	1.5	4.8		1.5	4.7
Number	43	13	227		13	282
Female						
Sample Number	8	1	33			42
Percent	7.2	0.9	29.7			37.8
Std. Error	2.5	0.9	4.4			4.6
Number	34	4	141			180
All Fish						
Sample Number	18	4	86		3	111
Percent	16.2	3.6	77.5		2.7	100.0
Std. Error	3.5	1.8	4.0		1.5	
Number	77	17	368		13	475
Escapement Dates:	(August 24 - 30)					
Male						
Sample Number	1	9	112	3	9	134
Percent	0.4	3.2	39.6	1.1	3.2	47.3
Std. Error	0.4	1.0	2.9	0.6	1.0	3.0
Number	39	347	4322	116	347	5171
Female						
Sample Number	2	13	121	1	12	149
Percent	0.7	4.6	42.8	0.4	4.2	52.7
Std. Error	0.5	1.2	2.9	0.4	1.2	3.0
Number	77	502	4669	39	463	5749
All Fish						
Sample Number	3	22	233	4	21	283
Percent	1.1	7.8	82.3	1.4	7.4	100.0
Std. Error	0.6	1.6	2.3	0.7	1.6	
Number	116	849	8991	154	810	10920
Escapement Dates:	(August 31 - Sept. 6)					
Male						
Sample Number	6	55	3	10		74
Percent	3.8	34.8	1.9	6.3		46.8
Std. Error	1.5	3.8	1.1	1.9		4.0
Number	332	3048	166	554		4100
Female						
Sample Number	14	60	3	7		84
Percent	8.9	38.0	1.9	4.4		53.2
Std. Error	2.3	3.9	1.1	1.6		4.0
Number	776	3325	166	388		4655
All Fish						
Sample Number	20	115	6	17		158
Percent	12.7	72.8	3.8	10.8		100.0
Std. Error	2.7	3.6	1.5	2.5		
Number	1108	6372	332	942		8755

-continued-

Appendix Table C12. Age composition of the Klukshu River escapement of sockeye salmon by sex, age class, and sampling period, 1986 (continued).

	Brood Year and Age Class					
	1982	1982	1981	1981	1980	
	0.3	1.2	1.3	2.2	2.3	Total
Escapement Dates:	(Sept. 7 - 27)					
Male						
Sample Number	1	6	64	1	2	74
Percent	0.7	4.2	44.4	0.7	1.4	51.4
Std. Error	0.7	1.7	4.2	0.7	1.0	4.2
Number	26	154	1640	26	51	1897
Female						
Sample Number	14	53	1	2		70
Percent	9.7	36.8	0.7	1.4		48.6
Std. Error	2.5	4.0	0.7	1.0		4.2
Number	359	1358	26	51		1794
All Fish						
Sample Number	1	20	117	2	4	144
Percent	0.7	13.9	81.3	1.4	2.8	100.0
Std. Error	0.7	2.9	3.3	1.0	1.4	
Number	26	513	2999	51	103	3691
Escapement Dates:	(Sept. 28 - October 21)					
Male						
Sample Number	1	5				6
Percent	10.0	50.0				60.0
Std. Error	10.0	16.7				16.3
Number	104	520				623
Female						
Sample Number	1	3				4
Percent	10.0	30.0				40.0
Std. Error	10.0	15.3				16.3
Number	104	312				416
All Fish						
Sample Number	2	8				10
Percent	20.0	80.0				100.0
Std. Error	13.3	13.3				
Number	208	831				1039
Combined Periods (Percentages are weighted by period catches)						
Male						
Sample Number	12	25	289	7	24	354
Percent	0.4	3.8	39.2	1.2	3.9	48.5
Std. Error	0.2	0.9	2.1	0.5	0.8	2.1
Number	107	950	9756	308	965	12074
Female						
Sample Number	10	43	270	5	21	349
Percent	0.4	7.0	39.4	0.9	3.6	51.4
Std. Error	0.2	1.1	2.1	0.4	0.8	2.1
Number	111	1744	9805	230	902	12794
All Fish						
Sample Number	22	68	559	12	45	706
Percent	0.9	10.8	78.6	2.2	7.5	100.0
Std. Error	0.3	1.4	1.8	0.6	1.1	
Number	218	2695	19561	538	1868	24880

Appendix Table C13. Length composition of the Klukshu River sockeye salmon escapement by sex, age class, and sampling period, 1986. 1/

		Brood Year and Age Class				
		1982	1982	1981	1981	1980
		0.3	1.2	1.3	2.2	2.3
Escapements Dates: (July 13 - August 23)						
Male	Avg. Length	617.4	520.0	624.5		629.3
	Std. Error	14.0	40.0	5.6		12.8
	Sample Size	10	3	53		3
Female	Avg. Length	584.4	532.0	594.9		
	Std. Error	13.9		3.6		
	Sample Size	8	1	33		
All Fish	Avg. Length	602.7	523.0	613.2		629.3
	Std. Error	10.4	28.4	4.0		12.8
	Sample Size	18	4	86		3
Escapements Dates: (August 24 - 30)						
Male	Avg. Length	605.0	597.0	662.0	548.3	662.6
	Std. Error		17.4	2.4	27.7	10.7
	Sample Size	1	9	112	3	9
Female	Avg. Length	568.0	562.1	612.7	552.0	613.4
	Std. Error	46.0	7.4	2.4		7.5
	Sample Size	2	13	121	1	12
All Fish	Avg. Length	580.3	576.4	636.4	549.3	634.5
	Std. Error	29.3	8.9	2.4	19.6	8.2
	Sample Size	3	22	233	4	21
Escapement Dates: (August 31 - Sept. 6)						
Male	Avg. Length		587.8	665.8	589.0	648.0
	Std. Error		2.4	3.2	4.6	12.1
	Sample Size		6	55	3	10
Female	Avg. Length		529.4	620.0	533.0	612.6
	Std. Error		5.8	2.3	9.8	6.2
	Sample Size		14	60	3	7
All Fish	Avg. Length		546.9	641.9	561.0	633.4
	Std. Error		7.4	2.9	13.4	8.6
	Sample Size		20	115	6	17

-continued-

Appendix Table C13. Length composition of the Klukshu River sockeye salmon escapement by sex, age class, and sampling period, 1986 (continued).

		Brood Year and Age Class				
		1982	1982	1981	1981	1980
		0.3	1.2	1.3	2.2	2.3
Escapements Dates: (Sept. 7 - Sept. 27)						
Male	Avg. Length	662.0	571.8	669.4	599.0	672.0
	Std. Error		12.4	3.2		32.0
	Sample Size	1	6	64	1	2
Female	Avg. Length		560.9	621.4	494.0	627.5
	Std. Error		7.9	3.8		22.5
	Sample Size		14	53	1	2
All Fish	Avg. Length	662.0	564.2	647.6	546.5	649.8
	Std. Error		6.6	3.3	52.5	20.5
	Sample Size	1	20	117	2	4
Escapement Dates: (Sept. 28 - October 21)						
Male	Avg. Length		592.0	666.0		
	Std. Error			17.8		
	Sample Size		1	5		
Female	Avg. Length		484.0	602.3		
	Std. Error			10.2		
	Sample Size		1	3		
All Fish	Avg. Length		538.0	642.1		
	Std. Error		54.0	16.1		
	Sample Size		2	8		
Combined Periods (Unweighted)						
Male	Avg. Length	620.1	579.3	657.6	573.0	653.1
	Std. Error	12.2	9.2	1.9	13.8	7.1
	Sample Size	12	25	289	7	24
Female	Avg. Length	581.1	548.5	613.7	529.0	614.5
	Std. Error	13.1	4.7	1.6	10.9	5.0
	Sample Size	10	43	270	5	21
All Fish	Avg. Length	602.4	559.9	636.4	554.7	635.1
	Std. Error	9.7	4.8	1.6	11.0	5.3
	Sample Size	22	68	559	12	45

1/ Lengths measured from snout to fork (mm).

Appendix Table C14. Length composition of the Klukshu River chinook salmon escapement by sex and age class, 1986. 1/

Brood Year and Age Class			
	1982	1981	1980
	1.2	1.3	1.4
Escapement Dates: (July 5 - Sept. 5)			
Male	Avg. Length	645.4	940.3
	Std. Error	12.8	9.7
	Sample Size	50	126
Female	Avg. Length	793.0	893.8
	Std. Error	42.0	3.8
	Sample Size	6	211
All Fish	Avg. Length	661.2	911.2
	Std. Error	13.7	4.5
	Sample Size	56	337

1/ Length measurements are from snout to fork.

Appendix Table C15. Age composition of the Klukshu River escapement of chinook salmon by sex and age class, 1986.

Brood Year and Age Class				
	1982	1981	1980	
	1.2	1.3	1.4	Total
Escapement Dates: (July 1 - Sept. 5)				
Male				
Sample Number	50	126	25	201
Percent	11.5	29.0	5.7	46.2
Std. Error	1.5	2.2	1.1	2.4
Number	311	784	156	1251
Female				
Sample Number	6	212	16	234
Percent	1.4	48.7	3.7	53.8
Std. Error	0.6	2.4	0.9	2.4
Number	37	1320	100	1457
All Fish				
Sample Number	56	338	41	435
Percent	12.9	77.7	9.4	100.0
Std. Error	1.6	2.0	1.4	
Number	349	2104	255	2708

Appendix Table D1. Akwe River commercial gillnet catch of salmon, number of fisherman, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
26	6/22-6/28	60	6	228	888			
27	6/29-7/05	36	14	82	2,133	4		
28	7/06-7/12	36	11	18	1,719	6		5
29	7/13-7/19	36	14	42	2,704	2	1	11
30	7/20-7/26	24	14	6	805	5	2	4
31	7/27-8/02	12	8	3	535			48
32	8/03-8/09	24	6		108	4		17
33	8/10-8/16	72	1		32			
34	8/17-8/23	72	1	3	134	83	40	11
35	8/24-8/30	72	3	2	20	165		2
36	8/31-9/06	72	4		7	777		
37	9/07-9/13	72	4		2	1,208		
38	9/14-9/20	72	8			3,877		3
39	9/21-9/27	48	7			1,278		
40	9/28-10/4	72	5			1,209		
TOTAL				384	9,087	8,618	43	101

Appendix Table D2. Akwe River escapement of salmon, 1986. 1/

Area	Survey Dates	Survey			Coho	Pink	Chum
		Chinook	Sockeye				
Akwe River	6/30		500				
	7/22		50				
	7/27		0 2/				
	7/29		0 2/				
	8/01		250 3/				
	8/15		200				
	8/18		0 2/				
	9/10		953 4/				
	9/16			5,900 5/			
	9/26				4,300 5/		
Akwe Lake	7/22		0				
	9/10		86 6/				
Little Akwe River	9/10		1,574				
	10/31				20		

1/ Aerial surveys, unless otherwise noted.

2/ Turbid water.

3/ Fish seen below fishery markers.

4/ Foot survey, upper 2 miles, Akwe River.

5/ Survey in lower 6 miles of the Akwe River.

6/ Foot survey, Akwe Lake.

Appendix Table D3. Age composition of the Akwe River commercial gill net catch of chinook salmon, by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	-----	-----	-----	-----	
	1.1	1.2	1.3	1.4	Total
Statistical Weeks	26	-	34	(June 22 - August 23)	
Male					
Sample Number	2	21	7	5	35
Percent	2.2	22.6	7.5	5.4	37.6
Std. Error	1.5	4.4	2.8	2.4	5.1
Number	8	87	29	21	145
Female					
Sample Number		30	23	5	58
Percent		32.3	24.7	5.4	62.4
Std. Error		4.9	4.5	2.4	5.1
Number		123	95	21	239
All Fish					
Sample Number	2	51	30	10	93
Percent	2.2	54.8	32.3	10.8	100.0
Std. Error	1.5	5.2	4.9	3.2	
Number	8	210	124	42	384

Appendix Table D4. Age composition of the Akwe River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Statistical Week	Brood Year and Age Class							
	1983		1982		1981		1980	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
Statistical Week	26	(June 22 - 28)						
Male								
Sample Number	59	34	4	8	2		3	110
Percent	25.0	14.4	1.7	3.4	0.8		1.3	46.6
Std. Error	2.8	2.3	0.8	1.2	0.6		0.7	3.3
Number	222	128	15	30	8		11	414
Female								
Sample Number	24	82	1	15			4	126
Percent	10.2	34.7	0.4	6.4			1.7	53.4
Std. Error	2.0	3.1	0.4	1.6			0.8	3.3
Number	90	309	4	56			15	474
All Fish								
Sample Number	83	116	5	23	2		7	236
Percent	35.2	49.2	2.1	9.7	0.8		3.0	100.0
Std. Error	3.1	3.3	0.9	1.9	0.6		1.1	
Number	312	436	19	87	8		26	888
Statistical Week	27	(June 29 - July 5)						
Male								
Sample Number	26	18	2	9	1		4	60
Percent	15.6	10.8	1.2	5.4	0.6		2.4	35.9
Std. Error	2.8	2.4	0.8	1.8	0.6		1.2	3.7
Number	331	230	26	115	13		51	766
Female								
Sample Number	10	65	2	27			3	107
Percent	6.0	38.9	1.2	16.2			1.8	64.1
Std. Error	1.8	3.8	0.8	2.9			1.0	3.7
Number	128	830	26	345			38	1,367
All Fish								
Sample Number	36	83	4	36	1		7	167
Percent	21.6	49.7	2.4	21.6	0.6		4.2	100.0
Std. Error	3.2	3.9	1.2	3.2	0.6		1.6	
Number	459	1,060	52	460	13		89	2,133
Statistical Weeks	28 - 29	(July 6 - 19)						
Male								
Sample Number	31	17	2	11	1	1	2	65
Percent	19.5	10.7	1.3	6.9	0.6	0.6	1.3	40.9
Std. Error	3.2	2.5	0.9	2.0	0.6	0.6	0.9	3.9
Number	861	473	56	306	28	28	56	1,808
Female								
Sample Number	6	62	2	21	1		2	94
Percent	3.8	39.0	1.3	13.2	0.6		1.3	59.1
Std. Error	1.5	3.9	0.9	2.7	0.6		0.9	3.9
Number	167	1,724	56	584	28		56	2,615
All Fish								
Sample Number	37	79	4	32	2	1	4	159
Percent	23.3	49.7	2.5	20.1	1.3	0.6	2.5	100.0
Std. Error	3.4	4.0	1.2	3.2	0.9	0.6	1.2	
Number	1,028	2,197	112	890	56	28	112	4,423

-Continued-

Appendix Table D4. Age composition of the Akwe River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

	Brood Year and Age Class							
	1983		1982		1981		1980	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	Total
Statistical Weeks	30	-	37	(July 20 - Sept. 13)				
Male								
Sample Number	17	35	2	19	1	1		75
Percent	10.4	21.5	1.2	11.7	0.6	0.6		46.0
Std. Error	2.4	3.2	0.9	2.5	0.6	0.6		3.9
Number	171	353	20	192	10	10		756
Female								
Sample Number	5	42	3	30	3	5		88
Percent	3.1	25.8	1.8	18.4	1.8	3.1		54.0
Std. Error	1.4	3.4	1.1	3.0	1.1	1.4		3.9
Number	50	424	30	303	30	50		887
All Fish								
Sample Number	22	77	5	49	4	6		163
Percent	13.5	47.2	3.1	30.1	2.5	3.7		100.0
Std. Error	2.7	3.9	1.4	3.6	1.2	1.5		2.2
Number	221	777	50	495	40	60		1,643
Combined Periods (Percentages are weighted by period catches)								
Male								
Sample Number	133	104	10	47	5	1	10	310
Percent	17.5	13.0	1.3	7.1	0.6	0.3	1.4	41.2
Std. Error	1.7	1.5	0.5	1.2	0.4	0.3	0.5	2.2
Number	1,588	1,184	116	643	58	28	128	3,745
Female								
Sample Number	45	251	8	93	4	14		415
Percent	4.8	36.2	1.3	14.2	0.6	1.8		58.8
Std. Error	0.9	2.2	0.5	1.6	0.4	0.6		2.2
Number	435	3,287	115	1,288	58	159		5,342
All Fish								
Sample Number	178	355	18	140	9	1	24	725
Percent	22.3	49.2	2.5	21.2	1.3	0.3	3.2	100.0
Std. Error	1.9	2.3	0.7	1.9	0.5	0.3	0.8	
Number	2,023	4,471	231	1,931	116	28	287	9,087

Appendix Table D5. Age composition of the Akwe River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	0.2	0.3	1.2	1.3	2.3
Sampling Dates:	(Sept. 11)				
Male					
Sample Number	119	74	7	5	205
Percent	29.0	18.0	1.7	1.2	49.9
Std. Error	2.2	1.9	0.6	0.5	2.5
Female					
Sample Number	25	159		18	4
Percent	6.1	38.7		4.4	1.0
Std. Error	1.2	2.4		1.0	0.5
All Fish					
Sample Number	144	233	7	23	4
Percent	35.0	56.7	1.7	5.6	1.0
Std. Error	2.4	2.4	0.6	1.1	0.5

Appendix Table D6. Age composition of the Akwe River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class					
	1984	1983	1982	1981	1980	
	1.0	1.1	2.1	3.1	4.1	Total
Statistical Weeks	27	-	36	(June 29 - Sept. 6)		
Male						
Sample Number		24	41	16		81
Percent		17.5	29.9	11.7		59.1
Std. Error		3.3	3.9	2.8		4.2
Number		183	313	122		618
Female						
Sample Number		13	29	12	2	56
Percent		9.5	21.2	8.8	1.5	40.9
Std. Error		2.5	3.5	2.4	1.0	4.2
Number		99	222	92	15	428
All Fish						
Sample Number		37	70	28	2	137
Percent		27.0	51.1	20.4	1.5	100.0
Std. Error		3.8	4.3	3.5	1.0	
Number		282	535	214	15	1,046
Statistical Week	37	(Sept. 7 - 13)				
Male						
Sample Number	1	32	53	13	1	100
Percent	0.6	17.9	29.6	7.3	0.6	55.9
Std. Error	0.6	2.9	3.4	1.9	0.6	3.7
Number	7	216	357	88	7	675
Female						
Sample Number		22	44	13		79
Percent		12.3	24.6	7.3		44.1
Std. Error		2.5	3.2	1.9		3.7
Number		148	297	88		533
All Fish						
Sample Number	1	54	97	26	1	179
Percent	0.6	30.2	54.2	14.5	0.6	100.0
Std. Error	0.6	3.4	3.7	2.6	0.6	
Number	7	364	654	176	7	1,208
Statistical Weeks	38	-	40	(Sept. 14 - October 4)		
Male						
Sample Number		21	42	8		71
Percent		13.5	26.9	5.1		45.5
Std. Error		2.7	3.6	1.8		4.0
Number		857	1,713	326		2,896
Female						
Sample Number		29	50	6		85
Percent		18.6	32.1	3.8		54.5
Std. Error		3.1	3.7	1.5		4.0
Number		1,183	2,040	245		3,468
All Fish						
Sample Number		50	92	14		156
Percent		32.1	59.0	9.0		100.0
Std. Error		3.7	4.0	2.3		
Number		2,040	3,753	571		6,364
Combined Periods (Percentages are weighted by period catches)						
Male						
Sample Number	1	77	136	37	1	252
Percent	0.1	14.6	27.7	6.2	0.1	48.6
Std. Error	0.1	2.1	2.7	1.4	0.1	3.0
Number	7	1,256	2,384	536	7	4,190
Female						
Sample Number		64	123	31	2	220
Percent		16.6	29.7	4.9	0.2	51.4
Std. Error		2.4	2.8	1.2	0.1	3.0
Number		1,431	2,558	424	15	4,428
All Fish						
Sample Number	1	141	259	68	3	472
Percent	0.1	31.2	57.3	11.1	0.3	100.0
Std. Error	0.1	2.8	3.0	1.8	0.1	
Number	7	2,687	4,942	960	22	8,618

Appendix Table D7. Length composition of the Akwe River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	-----	-----	-----	-----	
Statistical Weeks 26 - 35 (June 22 - August 30)					
Male	Avg. Length	480.0	636.0	862.1	962.0
	Std. Error	40.0	12.1	22.3	25.3
	Sample Size	2	21	7	5
Female	Avg. Length		696.5	846.5	907.0
	Std. Error		14.6	8.8	4.4
	Sample Size		30	23	5
All Fish	Avg. Length	480.0	671.6	850.2	934.5
	Std. Error	40.0	10.7	8.4	15.2
	Sample Size	2	51	30	10

Appendix Table D8. Length composition of the Akwe River commercial gill net fishery of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class							
		1983	1982	1981	1980		
		0.2	0.3	1.2	1.3	2.2	2.3
Statistical Week	26	(June 22 - 28)					
Male	Avg. Length	445.7	570.0			560.0	
	Std. Error	7.5	12.1				1
	Sample Size	7	5				
Female	Avg. Length	455.0	561.3		540.0		
	Std. Error	45.0	5.5		20.0		
	Sample Size	2	4		2		
All Fish	Avg. Length	447.8	566.1		540.0		560.0
	Std. Error	9.5	7.0		20.0		
	Sample Size	9	9		2		1
Statistical Week	27	(June 29 - July 5)					
Male	Avg. Length	452.5				555.0	
	Std. Error	10.3					1
	Sample Size	4					
Female	Avg. Length	455.0	568.0		573.3		
	Std. Error	5.0	6.6		6.7		
	Sample Size	2	5		3		
All Fish	Avg. Length	453.3	568.0		573.3		555.0
	Std. Error	6.7	6.6		6.7		
	Sample Size	6	5		3		1
Statistical Weeks	28 - 29	(July 6 - 19)					
Male	Avg. Length	465.0			575.0		600.0
	Std. Error	15.0			15.0		
	Sample Size	2			2		1
Female	Avg. Length		569.4		557.5		
	Std. Error		4.4		7.5		
	Sample Size		8		2		
All Fish	Avg. Length	465.0	569.4		566.3		600.0
	Std. Error	15.0	4.4		8.5		
	Sample Size	2	8		4		1
Statistical Weeks	30 - 37	(July 20 - Sept. 13)					
Male	Avg. Length	460.0	605.0	630.0	630.0	540.0	
	Std. Error	10.0	2.2				
	Sample Size	2	5	1	1	1	
Female	Avg. Length		580.0				
	Std. Error		8.9				
	Sample Size		6				
All Fish	Avg. Length	460.0	591.4	630.0	630.0	540.0	
	Std. Error	10.0	6.1				
	Sample Size	2	11	1	1	1	
Combined Periods (Unweighted)							
Male	Avg. Length	452.0	587.5	630.0	593.3	540.0	571.7
	Std. Error	4.9	8.2		20.3		14.2
	Sample Size	15	10	1	3	1	3
Female	Avg. Length	455.0	570.4		559.3		
	Std. Error	18.5	3.3		7.7		
	Sample Size	4	23		7		
All Fish	Avg. Length	452.6	575.6	630.0	569.5	540.0	571.7
	Std. Error	5.2	3.6		9.1		14.2
	Sample Size	19	33	1	10	1	3

Appendix Table D9. Length composition of the Akwe River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

		Brood Year and Age Class				
		1983	1982	1982	1981	1980
		0.2	0.3	1.2	1.3	2.3

Sampling Dates: (Sept. 11)						
Male	Avg. Length	494.5	616.4	510.0	576.7	
	Std. Error	4.3	13.2	10.8	97.7	
	Sample Size	104	47	4	3	
Female	Avg. Length	560.0	599.5		603.3	635.0
	Std. Error	19.7	4.4		12.0	25.0
	Sample Size	14	112		12	2
All Fish	Avg. Length	502.3	604.5	510.0	598.0	635.0
	Std. Error	4.9	5.0	10.8	19.3	25.0
	Sample Size	118	159	4	15	2

Appendix Table D10. Length composition of the Akwe River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class			
		1983	1982	1981	1980
		1.1	2.1	3.1	4.1
Statistical Weeks		27 - 36	(June 29 - Sept. 6)		
Male	Avg. Length	630.0	665.0	650.0	
	Std. Error	25.2	11.7		
	Sample Size	3	6	1	
Female	Avg. Length	600.0	615.0	653.3	
	Std. Error		28.4	24.0	
	Sample Size	1	3	3	
All Fish	Avg. Length	622.5	648.3	652.5	
	Std. Error	19.3	13.9	17.0	
	Sample Size	4	9	4	
Statistical Week		37	(Sept. 7 - 13)		
Male	Avg. Length	637.5	661.3		705.0
	Std. Error	2.5	18.0		
	Sample Size	2	4		1
Female	Avg. Length		685.0	690.0	
	Std. Error		19.4	10.0	
	Sample Size		4	2	
All Fish	Avg. Length	637.5	673.1	690.0	705.0
	Std. Error	2.5	13.0	10.0	
	Sample Size	2	8	2	1
Statistical Weeks		38 - 40	(Sept. 14 - October 4)		
Male	Avg. Length	630.0	690.7	670.0	
	Std. Error	40.0	15.8	20.0	
	Sample Size	2	7	2	
Female	Avg. Length	647.5	653.3	640.0	
	Std. Error	2.5	37.1		
	Sample Size	2	3	1	
All Fish	Avg. Length	638.8	679.5	660.0	
	Std. Error	17.1	15.5	15.3	
	Sample Size	4	10	3	
Combined Periods (Unweighted)					
Male	Avg. Length	632.1	674.7	663.3	705.0
	Std. Error	13.0	8.9	13.3	
	Sample Size	7	17	3	1
Female	Avg. Length	631.7	654.5	663.3	
	Std. Error	15.9	17.0	14.1	
	Sample Size	3	10	6	
All Fish	Avg. Length	632.0	667.2	663.3	705.0
	Std. Error	9.8	8.4	9.9	
	Sample Size	10	27	9	1

Appendix Table E1. Italio River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986. 1/

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
27	6/29-7/05	36	3	5	615	1		4
28	7/06-7/12	36	4	6	1,039			2
29	7/13-7/19	60	4	2	768			23
30	7/20-7/26	60	2		624			29
31	7/27-8/02	36	4	3	436	3		519
32	8/03-8/09	72	1	5	456	9		176
33	8/10-8/16	72	1		34	23		82
34	8/17-8/23	72	2		30	5		38
35	8/24-8/30	72	1		5	160		19
36	8/31-9/06	72	1		3	338		4
37	9/07-9/13	72	1			415		3
38	9/14-9/20	72	2			610		4
39	9/21-9/27	48	3			292		
TOTAL				21	4,010	1,856	0	903

1/ Fishery was open during statistical week 40, but resulting catch data were not entered in fish ticket data base.

Appendix Table E2. Italio River escapement of salmon, 1986. 1/

Area	Survey Dates	Chinook Sockeye Coho Pink Chum			
Italio River	6/30	2,500			
	7/22	3,800			
	7/27	1,300			
	7/29	3,800			
	8/15			2,300	
	8/31	500			
	9/10	200	700		700
	9/16			2,000	
	9/26			2,650	
	10/31			1,100	
Italio Lake	8/31	1,500			
	9/10	1,500			
Old Italio River	9/16			20	
	9/26			50	

1/ Aerial surveys.

Appendix Table E3. Age composition of the Italo River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class								Total	
	1983		1982		1981		1980			
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3		
Statistical Week	27	(June 29 - July 5)								
Male										
Sample Number	6	16	7		34		1		64	
Percent	3.5	9.3	4.1		19.8		0.6		37.2	
Std. Error	1.4	2.2	1.5		3.0		0.6		3.7	
Number	21	57	25		122		4		229	
Female										
Sample Number	5	32	6	1	63		1		108	
Percent	2.9	18.6	3.5	0.6	36.6		0.6		62.8	
Std. Error	1.3	3.0	1.4	0.6	3.7		0.6		3.7	
Number	18	114	21	4	225		4		386	
All Fish										
Sample Number	11	48	13	1	97		2		172	
Percent	6.4	27.9	7.6	0.6	56.4		1.2		100.0	
Std. Error	1.9	3.4	2.0	0.6	3.8		0.8		3.8	
Number	39	171	46	4	347		8		615	
Statistical Week	28	(July 6 - 12)								
Male										
Sample Number	15	19	5		29	2	1		71	
Percent	8.9	11.3	3.0		17.3	1.2	0.6		42.3	
Std. Error	2.2	2.5	1.3		2.9	0.8	0.6		3.8	
Number	93	118	31		179	12	6		439	
Female										
Sample Number	31	1			59	3		3	97	
Percent	18.5	0.6			35.1	1.8		1.8	57.7	
Std. Error	3.0	0.6			3.7	1.0		1.0	3.8	
Number	191	6			365	19		19	600	
All Fish										
Sample Number	15	50	6		88	5	1	3	168	
Percent	8.9	29.8	3.6		52.4	3.0	0.6	1.8	100.0	
Std. Error	2.2	3.5	1.4		3.9	1.3	0.6	1.0	3.8	
Number	93	309	37		544	31	6	19	1,039	
Statistical Week	29	(July 13 - 19)								
Male										
Sample Number	9	18	3	1	25	1			57	
Percent	6.1	12.2	2.0	0.7	16.9	0.7			38.5	
Std. Error	2.0	2.7	1.2	0.7	3.1	0.7			4.0	
Number	47	93	16	5	130	5			296	
Female										
Sample Number	1	35	7		46		2		91	
Percent	0.7	23.6	4.7		31.1		1.4		61.5	
Std. Error	0.7	3.5	1.8		3.8		1.0		4.0	
Number	5	182	36		239		10		472	
All Fish										
Sample Number	10	53	10	1	71	1		2	148	
Percent	6.8	35.8	6.8	0.7	48.0	0.7		1.4	100.0	
Std. Error	2.1	4.0	2.1	0.7	4.1	0.7		1.0	3.8	
Number	52	275	52	5	369	5		10	768	

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Appendix Table E3. Age composition of the Italo River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

Brood Year and Age Class									
	1983		1982		1981		1980		
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Statistical Week	30	(July 20 - 26)							
Male									
Sample Number		31	6		22		1	3	63
Percent		25.8	5.0		18.3		0.8	2.5	52.5
Std. Error		4.0	2.0		3.5		0.8	1.4	4.6
Number		162	31		114		5	16	328
Female									
Sample Number	2	33		1	20	1			57
Percent	1.7	27.5		0.8	16.7	0.8			47.5
Std. Error	1.2	4.1		0.8	3.4	0.8			4.6
Number	10	172		5	104	5			296
All Fish									
Sample Number	2	64	6	1	42	1	1	3	120
Percent	1.7	53.3	5.0	0.8	35.0	0.8	0.8	2.5	100.0
Std. Error	1.2	4.6	2.0	0.8	4.4	0.8	0.8	1.4	
Number	10	334	31	5	218	5	5	16	624
Statistical Weeks	31 - 36	(July 27 - Sept. 6)							
Male									
Sample Number		12	4		15				31
Percent		14.1	4.7		17.6				36.5
Std. Error		3.8	2.3		4.2				5.3
Number		137	45		170				352
Female									
Sample Number	17	4		30			3		54
Percent	20.0	4.7		35.3			3.5		63.5
Std. Error	4.4	2.3		5.2			2.0		5.3
Number	193	45		340			34		612
All Fish									
Sample Number	29	8		45			3		85
Percent	34.1	9.4		52.9			3.5		100.0
Std. Error	5.2	3.2		5.4			2.0		
Number	330	90		510			34		964
Combined Periods (Percentages are weighted by period catches)									
Male									
Sample Number	30	96	25	1	125	3	2	4	286
Percent	4.0	14.1	3.7	0.1	17.8	0.4	0.3	0.5	41.0
Std. Error	0.7	1.4	0.8	0.1	1.6	0.3	0.2	0.2	2.0
Number	161	566	148	5	715	18	11	19	1,643
Female									
Sample Number	8	148	18	2	218	4		9	407
Percent	0.8	21.3	2.7	0.2	31.7	0.6		1.7	59.0
Std. Error	0.3	1.7	0.7	0.2	1.9	0.3		0.6	2.0
Number	33	852	109	9	1,273	24		67	2,367
All Fish									
Sample Number	38	244	43	3	343	7	2	13	693
Percent	4.8	35.4	6.4	0.3	49.6	1.0	0.3	2.1	100.0
Std. Error	0.8	1.9	1.0	0.2	2.0	0.4	0.2	0.6	
Number	194	1,418	257	14	1,988	42	11	86	4,010

Appendix Table E4. Age composition of the Itallo River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	1.1	2.1	3.1	4.1	Total
Statistical Weeks	27	-	37	(June 29 - Sept. 13)	
Male					
Sample Number	52	57	4		113
Percent	25.0	27.4	1.9		54.3
Std. Error	3.0	3.1	1.0		3.5
Number	239	261	18		518
Female					
Sample Number	36	53	6		95
Percent	17.3	25.5	2.9		45.7
Std. Error	2.6	3.0	1.2		3.5
Number	165	243	28		436
All Fish					
Sample Number	88	110	10		208
Percent	42.3	52.9	4.8		100.0
Std. Error	3.4	3.5	1.5		
Number	404	504	46		954
Statistical Weeks	38	-	39	(Sept. 14 - Sept. 27)	
Male					
Sample Number	31	61	7		99
Percent	13.6	26.8	3.1		43.4
Std. Error	2.3	2.9	1.1		3.3
Number	123	241	28		392
Female					
Sample Number	44	76	7	2	129
Percent	19.3	33.3	3.1	0.9	56.6
Std. Error	2.6	3.1	1.1	0.6	3.3
Number	174	300	28	8	510
All Fish					
Sample Number	75	137	14	2	228
Percent	32.9	60.1	6.1	0.9	100.0
Std. Error	3.1	3.3	1.6	0.6	
Number	297	541	56	8	902
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	83	118	11		212
Percent	19.5	27.1	2.5		49.0
Std. Error	1.9	2.1	0.7		2.4
Number	361	503	46		910
Female					
Sample Number	80	129	13	2	224
Percent	18.3	29.3	3.0	0.4	51.0
Std. Error	1.9	2.2	0.8	0.3	2.4
Number	339	544	55	8	946
All Fish					
Sample Number	163	247	24	2	436
Percent	37.7	56.4	5.5	0.4	100.0
Std. Error	2.3	2.4	1.1	0.3	
Number	700	1,047	101	8	1,856

Appendix Table E5. Length composition of the Italo River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1983	1982	1981	1980	
		0.2	0.3	1.2	1.3	2.2
Statistical Week	27	(June 29 - July 5)				
Male	Avg. Length		636.7	520.0	595.0	
	Std. Error		8.8		5.0	
	Sample Size		3	1	2	
Female	Avg. Length	460.0	580.0	550.0	577.5	
	Std. Error				9.6	
	Sample Size	1	2	1	6	
All Fish	Avg. Length	460.0	614.0	535.0	581.9	
	Std. Error		14.7	15.0	7.7	
	Sample Size	1	5	2	8	
Statistical Week	28	(July 6 - 12)				
Male	Avg. Length	470.0	605.0	480.0	565.0	
	Std. Error		5.0		6.5	
	Sample Size	1	2	1	4	
Female	Avg. Length		567.5		555.0	500.0
	Std. Error		10.2		15.0	
	Sample Size		8		2	1
All Fish	Avg. Length	470.0	575.0	480.0	561.7	500.0
	Std. Error		9.5		6.0	
	Sample Size	1	10	1	6	1
Statistical Week	29	(July 13 - 19)				
Male	Avg. Length	497.5	602.0		603.0	
	Std. Error	52.5	10.1		4.1	
	Sample Size	2	5		5	
Female	Avg. Length				572.5	
	Std. Error				7.5	
	Sample Size				4	
All Fish	Avg. Length	497.5	602.0		589.4	
	Std. Error	52.5	10.1		6.5	
	Sample Size	2	5		9	

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Appendix Table E5. Length composition of the Italo River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

Brood Year and Age Class						
		1983	1982	1981	1980	
		0.2	0.3	1.2	1.3	2.2
Statistical Week	30	(July 20 - 26)				
Male	Avg. Length	615.0	532.5	607.5	585.0	
	Std. Error	15.0	12.5	11.6		
	Sample Size	2	2	4		1
Female	Avg. Length	584.0		585.0	525.0	
	Std. Error	8.3		10.0		
	Sample Size	5		3		1
All Fish	Avg. Length	592.9	532.5	597.9	525.0	585.0
	Std. Error	8.7	12.5	8.6		
	Sample Size	7	2	7	1	1
Statistical Weeks	31 - 36	(July 27 - Sept. 6)				
Male	Avg. Length		530.0	610.0		
	Std. Error			5.0		
	Sample Size		1	2		
Female	Avg. Length	583.3		572.5		
	Std. Error	10.9		2.5		
	Sample Size	3		2		
All Fish	Avg. Length	583.3	530.0	591.3		
	Std. Error	10.9		11.1		
	Sample Size	3	1	4		
Combined Periods (Unweighted)						
Male	Avg. Length	488.3	613.3	519.0	595.0	585.0
	Std. Error	31.7	6.4	10.8	5.3	
	Sample Size	3	12	5	17	1
Female	Avg. Length	460.0	576.1	550.0	574.4	512.5
	Std. Error		5.4		4.6	12.5
	Sample Size	1	18	1	17	2
All Fish	Avg. Length	481.3	591.0	524.2	584.7	512.5
	Std. Error	23.5	5.3	10.2	3.9	12.5
	Sample Size	4	30	6	34	2
						1

Appendix Table E6. Length composition of the Italo River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class		
		1983	1982	1981
		-----	-----	-----
		1.1	2.1	3.1
Statistical Weeks 27 - 37 (June 29 - Sept. 13)				
Male	Avg. Length	640.0	690.0	
	Std. Error		15.3	
	Sample Size	1	3	
Female	Avg. Length	614.4	658.9	
	Std. Error	14.8	10.8	
	Sample Size	8	9	
All Fish	Avg. Length	617.2	666.7	
	Std. Error	13.4	9.5	
	Sample Size	9	12	
Statistical Weeks 38 - 39 (Sept. 14 - 27)				
Male	Avg. Length	651.7	673.8	720.0
	Std. Error	27.4	15.7	
	Sample Size	3	4	1
Female	Avg. Length	660.8	679.4	750.0
	Std. Error	11.1	13.9	
	Sample Size	6	9	1
All Fish	Avg. Length	657.8	677.7	735.0
	Std. Error	10.8	10.4	15.0
	Sample Size	9	13	2
Combined Periods (Unweighted)				
Male	Avg. Length	648.8	680.7	720.0
	Std. Error	19.6	10.7	
	Sample Size	4	7	1
Female	Avg. Length	634.3	669.2	750.0
	Std. Error	11.3	8.9	
	Sample Size	14	18	1
All Fish	Avg. Length	637.5	672.4	735.0
	Std. Error	9.7	7.0	15.0
	Sample Size	18	25	2

Appendix Table F1. Dangerous River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish			
				Chinook	Sockeye	Coho	Pink
26	6/22-6/28	60	2	3	98	5	
27	6/29-7/05	60	4	6	117	5	3
28	7/06-7/12	60	1		37		
29	7/13-7/19	60	3	1	300		
30	7/20-7/26	60	5		428		
31	7/27-8/02	60	6		723	16	22
32	8/03-8/09	72	5		690	37	
33	8/10-8/16	72	4		405		
34	8/17-8/23	72	Not Fished				
35	8/24-8/30	72	1		13	139	2
TOTAL				10	2,811	202	22
							8

Appendix Table F2. Dangerous River escapement of salmon, 1986. 1/

Area	Survey Dates	Chinook Sockeye Coho Pink Chum				
Harlequin Lake	9/10		40		2/	

1/ Helicopter survey.

Appendix Table F3. Age composition of the Dangerous River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class							
	1983	1982	1981	1980			
	0.2	0.3	1.2	1.3	2.2	2.3	Total
Statistical Weeks	26	-	30	(June 22 - July 26)			
Male							
Sample Number	1	1	26	18	6	12	64
Percent	0.9	0.9	23.4	16.2	5.4	10.8	57.7
Std. Error	0.9	0.9	4.0	3.5	2.2	3.0	4.7
Number	9	9	230	158	53	106	565
Female							
Sample Number		3	10	21	7	6	47
Percent		2.7	9.0	18.9	6.3	5.4	42.3
Std. Error		1.5	2.7	3.7	2.3	2.2	4.7
Number		26	88	186	62	53	415
All Fish							
Sample Number	1	4	36	39	13	18	111
Percent	0.9	3.6	32.4	35.1	11.7	16.2	100.0
Std. Error	0.9	1.8	4.5	4.6	3.1	3.5	
Number	9	35	318	344	115	159	980
Statistical Weeks	31	-	32	(July 27 - August 9)			
Male							
Sample Number	2	2	31	21	5	3	64
Percent	1.0	1.0	16.1	10.9	2.6	1.6	33.3
Std. Error	0.7	0.7	2.7	2.3	1.2	0.9	3.4
Number	15	15	228	154	37	22	471
Female							
Sample Number		9	38	63	8	10	128
Percent		4.7	19.8	32.8	4.2	5.2	66.7
Std. Error		1.5	2.9	3.4	1.4	1.6	3.4
Number		66	280	463	59	74	942
All Fish							
Sample Number	2	11	69	84	13	13	192
Percent	1.0	5.7	35.9	43.8	6.8	6.8	100.0
Std. Error	0.7	1.7	3.5	3.6	1.8	1.8	
Number	15	81	508	617	96	96	1,413
Statistical Weeks	33	-	35	(August 10 - 30)			
Male							
Sample Number	1	1	22	26	4	5	59
Percent	0.6	0.6	13.3	15.7	2.4	3.0	35.5
Std. Error	0.6	0.6	2.6	2.8	1.2	1.3	3.7
Number	3	3	55	65	10	13	149
Female							
Sample Number	1	6	20	64	8	8	107
Percent	0.6	3.6	12.0	38.6	4.8	4.8	64.5
Std. Error	0.6	1.5	2.5	3.8	1.7	1.7	3.7
Number	3	15	50	161	20	20	269
All Fish							
Sample Number	2	7	42	90	12	13	166
Percent	1.2	4.2	25.3	54.2	7.2	7.8	100.0
Std. Error	0.8	1.6	3.4	3.9	2.0	2.1	
Number	6	18	105	226	30	33	418
Combined Periods (Percentages are weighted by period catches)							
Male							
Sample Number	4	4	79	65	15	20	187
Percent	0.9	0.9	18.3	13.5	3.6	5.0	42.1
Std. Error	0.5	0.5	2.0	1.7	1.0	1.1	2.4
Number	26	26	513	379	100	141	1,185
Female							
Sample Number	1	18	68	148	23	24	282
Percent	0.1	3.8	14.9	28.8	5.0	5.2	57.9
Std. Error	0.1	1.0	1.8	2.2	1.1	1.1	2.4
Number	3	108	418	810	141	146	1,626
All Fish							
Sample Number	5	22	147	213	38	44	469
Percent	1.0	4.8	33.1	42.3	8.6	10.2	100.0
Std. Error	0.5	1.1	2.4	2.5	1.4	1.6	
Number	29	134	931	1,189	241	287	2,811

Appendix Table F4. Length composition of the Dangerous River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1982		1981		1980
		0.3	1.2	1.3	2.2	2.3
Statistical Weeks	26 - 30	(June 22 - July 26)				
Male	Avg. Length	530.0	460.0	602.5	430.0	585.0
	Std. Error		20.0	17.5		15.0
	Sample Size	1	2	4	1	2
Female	Avg. Length		465.0	546.7		560.0
	Std. Error		45.0	18.6		5.8
	Sample Size		2	3		3
All Fish	Avg. Length	530.0	462.5	578.6	430.0	570.0
	Std. Error		20.2	16.2		8.4
	Sample Size	1	4	7	1	5
Statistical Weeks	31 - 32	(July 27 - August 9)				
Male	Avg. Length	557.5	495.0	580.0		
	Std. Error	17.5	32.5			
	Sample Size	2	3	1		
Female	Avg. Length	585.0	520.0	584.2		
	Std. Error		11.7	7.6		
	Sample Size	1	5	6		
All Fish	Avg. Length	566.7	510.6	583.6		
	Std. Error	13.6	13.5	6.4		
	Sample Size	3	8	7		
Statistical Weeks	33 - 35	(August 10 - 30)				
Male	Avg. Length	600.0	517.5	590.0	495.0	580.0
	Std. Error		7.5			
	Sample Size	1	2	1	1	1
Female	Avg. Length		528.8	575.0		
	Std. Error		21.3	8.2		
	Sample Size		4	8		
All Fish	Avg. Length	600.0	525.0	576.7	495.0	580.0
	Std. Error		13.8	7.5		
	Sample Size	1	6	9	1	1
Combined Periods (Unweighted)						
Male	Avg. Length	561.3	491.4	596.7	462.5	583.3
	Std. Error	16.1	15.9	11.7	32.5	8.8
	Sample Size	4	7	6	2	3
Female	Avg. Length	585.0	513.2	573.2		560.0
	Std. Error		12.8	6.2		5.8
	Sample Size	1	11	17		3
All Fish	Avg. Length	566.0	504.7	579.3	462.5	571.7
	Std. Error	13.4	10.0	5.8	32.5	7.0
	Sample Size	5	18	23	2	6

Appendix Table G1. Situk River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Inclusive Week	Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
28	7/06-7/12	24	30	84	1,045	4		4
29	7/13-7/19	36	28	95	4,554	3	154	12
30	7/20-7/26	24	29	19	1,512	2	406	2
31	7/27-8/02	Closed						
32	8/03-8/09	Closed						
33	8/10-8/16	Closed						
34	8/17-8/23	72	24	1	331	896	856	32
35	8/24-8/30	72	37	2	124	3,882	76	25
36	8/31-9/06	72	43	1	44	3,447	5	25
37	9/07-9/13	48	38		4	3,500	6	13
38	9/14-9/20	48	37		3	3,026		7
TOTAL				202	7,617	14,760	1,503	120

Appendix Table G2. Situk River escapement of salmon, 1986. 1/

Area	Dates	Survey		Coho	Pink	Chum
		Chinook	Sockeye			
Situk River Weir	6/04-8/18	2,572 2/	71,543	16	41,346	2
Situk River	8/28			1,000 3/		
	9/05			800	85,000	
	9/09			1,750		
	9/12			1,810		
	9/18			1,913		
	9/24			3,162		
	10/27		0	4	0	
Old Situk	8/28		3,000 3/			
	9/19		2,093			
	9/25		92	4	6,200	
	10/29		22	32	0	
	10/30		0	30	0 3/	
Ahrnklin River	9/07			180		
	9/22			320		
Sockeye Creek	7/25		4,070			
Antlen River	9/10			50 4/		

1/ Boat or foot surveys unless otherwise noted.

2/ Includes 505 small "jack" chinook salmon.

3/ Aerial survey.

4/ Helicopter survey.

Appendix Table G3. Situk River daily escapement of chinook salmon, and associated statistics, 1986.

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June 10	1	1	0.0004	0.0004
June 11	2	3	0.0008	0.0012
June 12	0	3	0.0000	0.0012
June 13	0	3	0.0000	0.0012
June 14	1	4	0.0004	0.0016
June 15	0	4	0.0000	0.0016
June 16	0	4	0.0000	0.0016
June 17	1	5	0.0004	0.0019
June 18	0	5	0.0000	0.0019
June 19	0	5	0.0000	0.0019
June 20	1	6	0.0004	0.0023
June 21	0	6	0.0000	0.0023
June 22	0	6	0.0000	0.0023
June 23	0	6	0.0000	0.0023
June 24	0	6	0.0000	0.0023
June 25	0	6	0.0000	0.0023
June 26	0	6	0.0000	0.0023
June 27	4	10	0.0016	0.0039
June 28	6	16	0.0023	0.0062
June 29	11	27	0.0043	0.0105
June 30	11	38	0.0043	0.0148
July 1	37	75	0.0144	0.0292
July 2	15	90	0.0058	0.0350
July 3	2	92	0.0008	0.0358
July 4	9	101	0.0035	0.0393
July 5	5	106	0.0019	0.0412
July 6	4	110	0.0016	0.0428
July 7	2	112	0.0008	0.0435
July 8	7	119	0.0027	0.0463
July 9	3	122	0.0012	0.0474
July 10	33	155	0.0128	0.0603
July 11	4	159	0.0016	0.0618
July 12	30	189	0.0117	0.0735
July 13	23	212	0.0089	0.0824
July 14	36	248	0.0140	0.0964
July 15	16	264	0.0062	0.1026
July 16	7	271	0.0027	0.1054
July 17	5	276	0.0019	0.1073
July 18	25	301	0.0097	0.1170
July 19	3	304	0.0012	0.1182
July 20	66	370	0.0257	0.1439
July 21	24	394	0.0093	0.1532
July 22	25	419	0.0097	0.1629
July 23	39	458	0.0152	0.1781
July 24	97	555	0.0377	0.2158
July 25	133	688	0.0517	0.2675
July 26	249	937	0.0968	0.3643
July 27	91	1,028	0.0354	0.3997
July 28	64	1,092	0.0249	0.4246
July 29	47	1,139	0.0183	0.4428
July 30	32	1,171	0.0124	0.4553
July 31	110	1,281	0.0428	0.4981
Aug. 1	127	1,408	0.0494	0.5474
Aug. 2	17	1,425	0.0066	0.5540
Aug. 3	75	1,500	0.0292	0.5832
Aug. 4	256	1,756	0.0995	0.6827
Aug. 5	39	1,795	0.0152	0.6979
Aug. 6	37	1,832	0.0144	0.7123
Aug. 7	102	1,934	0.0397	0.7519
Aug. 8	65	1,999	0.0253	0.7772
Aug. 9	82	2,081	0.0319	0.8091
Aug. 10	171	2,252	0.0665	0.8756
Aug. 11	18	2,270	0.0070	0.8826
Aug. 12	93	2,363	0.0362	0.9187
Aug. 13	73	2,436	0.0284	0.9471
Aug. 14	41	2,477	0.0159	0.9631
Aug. 15	37	2,514	0.0144	0.9774
Aug. 16	52	2,566	0.0202	0.9977
Aug. 17	6	2,572	0.0023	1.0000

Mean Day of Migration = July 30 Variance = 116.6 Days squared

Appendix Table G4. Situk River daily escapement of sockeye salmon, and associated statistics, 1986.

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June 4	0	0	0.0000	0.0000
June 5	0	0	0.0000	0.0000
June 6	0	0	0.0000	0.0000
June 7	0	0	0.0000	0.0000
June 8	0	0	0.0000	0.0000
June 9	8	8	0.0001	0.0001
June 10	3	11	0.0000	0.0002
June 11	2	13	0.0000	0.0002
June 12	1	14	0.0000	0.0002
June 13	0	14	0.0000	0.0002
June 14	0	14	0.0000	0.0002
June 15	0	14	0.0000	0.0002
June 16	0	14	0.0000	0.0002
June 17	0	14	0.0000	0.0002
June 18	0	14	0.0000	0.0002
June 19	0	14	0.0000	0.0002
June 20	0	14	0.0000	0.0002
June 21	0	14	0.0000	0.0002
June 22	0	14	0.0000	0.0002
June 23	116	130	0.0016	0.0018
June 24	102	232	0.0014	0.0032
June 25	526	758	0.0074	0.0106
June 26	20	778	0.0003	0.0109
June 27	1,813	2,591	0.0253	0.0362
June 28	1,164	3,755	0.0163	0.0525
June 29	740	4,495	0.0103	0.0628
June 30	1,457	5,952	0.0204	0.0832
July 1	3,015	8,967	0.0421	0.1253
July 2	2,440	11,407	0.0341	0.1594
July 3	1,832	13,239	0.0256	0.1850
July 4	1,525	14,764	0.0213	0.2064
July 5	1,555	16,319	0.0217	0.2281
July 6	1,935	18,254	0.0270	0.2551
July 7	2,280	18,534	0.0039	0.2591
July 8	776	19,310	0.0108	0.2699
July 9	1,825	21,135	0.0255	0.2954
July 10	6,256	27,391	0.0874	0.3829
July 11	638	28,029	0.0089	0.3918
July 12	1,449	29,478	0.0203	0.4120
July 13	2,365	31,843	0.0331	0.4451
July 14	2,579	34,422	0.0360	0.4811
July 15	1,634	36,056	0.0228	0.5040
July 16	583	36,639	0.0081	0.5121
July 17	802	37,441	0.0112	0.5233
July 18	1,452	38,893	0.0203	0.5436
July 19	128	39,021	0.0018	0.5454
July 20	1,583	40,604	0.0221	0.5675
July 21	849	41,453	0.0119	0.5794
July 22	1,109	42,562	0.0155	0.5949
July 23	1,500	44,062	0.0210	0.6159
July 24	855	44,917	0.0120	0.6278
July 25	1,826	46,743	0.0255	0.6534
July 26	2,185	48,928	0.0305	0.6839
July 27	1,690	50,618	0.0236	0.7075
July 28	1,546	52,164	0.0216	0.7291
July 29	505	52,669	0.0071	0.7362
July 30	1,880	54,549	0.0263	0.7625
July 31	3,059	57,608	0.0428	0.8052
Aug. 1	2,038	59,646	0.0285	0.8337
Aug. 2	1,438	61,084	0.0201	0.8538
Aug. 3	1,494	62,578	0.0209	0.8747
Aug. 4	2,557	65,135	0.0357	0.9104
Aug. 5	77	65,212	0.0011	0.9115
Aug. 6	194	65,406	0.0027	0.9142
Aug. 7	484	65,890	0.0068	0.9210
Aug. 8	222	66,112	0.0031	0.9241
Aug. 9	1,864	67,976	0.0261	0.9501
Aug. 10	1,547	69,523	0.0216	0.9718
Aug. 11	234	69,757	0.0033	0.9750
Aug. 12	339	70,096	0.0047	0.9798
Aug. 13	902	70,998	0.0126	0.9924
Aug. 14	157	71,155	0.0022	0.9946
Aug. 15	127	71,282	0.0018	0.9964
Aug. 16	151	71,433	0.0021	0.9985
Aug. 17	110	71,543	0.0015	1.0000

Mean Day of Migration = July 18 Variance = 179.9 Days squared

Appendix Table G5. Situk River daily escapement of pink salmon, and associated statistics, 1986.

Date	Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July 12	1	1	0.0000	0.0000
July 13	0	1	0.0000	0.0000
July 14	0	1	0.0000	0.0000
July 15	0	1	0.0000	0.0000
July 16	0	1	0.0000	0.0000
July 17	1	2	0.0000	0.0000
July 18	9	11	0.0002	0.0003
July 19	0	11	0.0000	0.0003
July 20	5	16	0.0001	0.0004
July 21	4	20	0.0001	0.0005
July 22	4	24	0.0001	0.0006
July 23	7	31	0.0002	0.0007
July 24	20	51	0.0005	0.0012
July 25	65	116	0.0016	0.0028
July 26	500	616	0.0121	0.0149
July 27	487	1,103	0.0118	0.0267
July 28	281	1,384	0.0068	0.0335
July 29	88	1,472	0.0021	0.0356
July 30	526	1,998	0.0127	0.0483
July 31	2,653	4,651	0.0642	0.1125
Aug. 1	2,683	7,334	0.0649	0.1774
Aug. 2	2,876	10,210	0.0696	0.2469
Aug. 3	3,112	13,322	0.0753	0.3222
Aug. 4	9,800	23,122	0.2370	0.5592
Aug. 5	91	23,213	0.0022	0.5614
Aug. 6	119	23,332	0.0029	0.5643
Aug. 7	78	23,410	0.0019	0.5662
Aug. 8	244	23,654	0.0059	0.5721
Aug. 9	8,526	32,180	0.2062	0.7783
Aug. 10	1,983	34,163	0.0480	0.8263
Aug. 11	629	34,792	0.0152	0.8415
Aug. 12	413	35,205	0.0100	0.8515
Aug. 13	1,530	36,735	0.0370	0.8885
Aug. 14	446	37,181	0.0108	0.8993
Aug. 15	1,881	39,062	0.0455	0.9448
Aug. 16	2,016	41,078	0.0488	0.9935
Aug. 17	268	41,346	0.0065	1.0000

Mean Day of Migration = Aug. 6 Variance = 26.4 Days squared

Appendix Table G6. Age composition of the Situk River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
	1982		1981		1980	
	0.3	1.2	0.4	1.3	1.4	Total
Statistical Weeks	28	-	38	(July 6 - Sept. 20)		
Male						
Sample Number		5	1	12	6	24
Percent		7.2	1.4	17.4	8.7	34.8
Std. Error		3.1	1.4	4.6	3.4	5.8
Number		15	3	34	18	70
Female						
Sample Number	1	12		23	9	45
Percent	1.4	17.4		33.3	13.0	65.2
Std. Error	1.4	4.6		5.7	4.1	5.8
Number	3	35		68	26	132
All Fish						
Sample Number	1	17	1	35	15	69
Percent	1.4	24.6	1.4	50.7	21.7	100.0
Std. Error	1.4	5.2	1.4	6.1	5.0	
Number	3	50	3	102	44	202

Appendix Table G7. Age composition of the Situk River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Statistical Week	Brood Year and Age Class										
	1983		1982		1981			1980		1979	
	0.2	0.3	1.2	0.4	1.3	2.2		1.4	2.3	3.3	Total
Statistical Week 28 (July 6 - 12)											
Male											
Sample Number	11	53	30	1	95	5		17		212	
Percent	1.9	9.0	5.1	0.2	16.0	0.8		2.9		35.8	
Std. Error	0.6	1.2	0.9	0.2	1.5	0.4		0.7		2.0	
Number	19	94	53	2	168	9		30		375	
Female											
Sample Number	9	82	32		211	7		38		380	
Percent	1.5	13.9	5.4		35.6	1.2		6.4		64.2	
Std. Error	0.5	1.4	0.9		2.0	0.4		0.2		2.0	
Number	16	145	56		372	12		2		670	
All Fish											
Sample Number	20	135	62	1	306	12		1		592	
Percent	3.4	22.8	10.5	0.2	51.7	2.0		0.2		100.0	
Std. Error	0.7	1.7	1.3	0.2	2.1	0.6		0.2		1.2	
Number	35	239	109	2	540	21		2		97	
											1,045
Statistical Week 29 (July 13 - 19)											
Male											
Sample Number	1	8	19		34	6		24		92	
Percent	0.6	4.7	11.1		19.9	3.5		14.0		53.8	
Std. Error	0.6	1.6	2.4		3.1	1.4		2.7		3.8	
Number	27	213	506		905	160				639	
Female											
Sample Number	1	11	3		42	2		20		79	
Percent	0.6	6.4	1.8		24.6	1.2		11.7		46.2	
Std. Error	0.6	1.9	1.0		3.3	0.8		2.5		3.8	
Number	27	293	80		1,118	53				533	
All Fish											
Sample Number	2	19	22		76	8		44		171	
Percent	1.2	11.1	12.9		44.4	4.7		25.7		100.0	
Std. Error	0.8	2.4	2.6		3.8	1.6		3.4			
Number	54	506	586		2,023	213				1,172	
											4,554
Statistical Weeks 30 - 38 (July 20 - Sept. 20)											
Male											
Sample Number	12	10		42	15		23	2		104	
Percent	5.7	4.7		19.8	7.1		10.8	0.9		49.1	
Std. Error	1.6	1.5		2.7	1.8		2.1	0.7		3.4	
Number	114	95		400	143		219	19		990	
Female											
Sample Number	1	21	8		48	9		21		108	
Percent	0.5	9.9	3.8		22.6	4.2		9.9		50.9	
Std. Error	0.5	2.1	1.3		2.9	1.4		2.1		3.4	
Number	10	200	76		456	86				1,028	
All Fish											
Sample Number	1	33	18		90	24		44	2	212	
Percent	0.5	15.6	8.5		42.5	11.3		20.8	0.9	100.0	
Std. Error	0.5	2.5	1.9		3.4	2.2		2.8	0.7		
Number	10	314	171		856	229				419	
											2,018
Combined Periods (Percentages are weighted by period catches)											
Male											
Sample Number	12	73	59	1	171	26		64	2	408	
Percent	0.6	5.5	8.6	<0.1	19.3	4.1		11.7	0.2	50.1	
Std. Error	0.4	1.1	1.5	<0.1	2.0	1.0		1.7	0.2	2.5	
Number	46	421	654	2	1,473	311		888	19	3,814	
Female											
Sample Number	11	114	43		301	18	1	79		567	
Percent	0.7	8.4	2.8		25.6	2.0	<0.1	10.5		49.9	
Std. Error	0.4	1.3	0.7		2.1	0.6	<0.1	1.6		2.5	
Number	52	637	213		1,948	151	2	800		3,803	
All Fish											
Sample Number	23	187	102	1	472	44	1	143	2	975	
Percent	1.3	13.9	11.4	<0.1	44.9	6.1	<0.1	22.2	0.2	100.0	
Std. Error	0.5	1.6	1.6	<0.1	2.5	1.1	<0.1	2.1	0.2		
Number	98	1,058	867	2	3,421	462	2	1,688	19	7,617	

Appendix Table G8. Age composition of the Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class							
	1982		1981		1980		
	0.3	1.2	1.3	2.2	1.4	2.3	Total
Escapement Dates:	(June 4 - July 12)						
Sampling Dates:	(June 30, July 2, July 9)						
Male							
Sample Number	1	17	49	1		6	74
Percent	0.4	6.6	19.0	0.4		2.3	28.7
Std. Error	0.4	1.5	2.4	0.4		0.9	2.8
Number	114	1,942	5,599	114		686	8,455
Female							
Sample Number	1	41	118	10		14	184
Percent	0.4	15.9	45.7	3.9		5.4	71.3
Std. Error	0.4	2.3	3.1	1.2		1.4	2.8
Number	114	4,684	13,482	1,143		1,600	21,023
All Fish							
Sample Number	2	58	167	11		20	258
Percent	0.8	22.5	64.7	4.3		7.8	100.0
Std. Error	0.5	2.6	3.0	1.3		1.7	
Number	228	6,626	19,081	1,257		2,286	29,478
Escapement Dates:	(July 13 - July 19)						
Sampling Dates:	(July 16)						
Male							
Sample Number		9	59			7	75
Percent		5.7	37.6			4.5	47.8
Std. Error		1.9	3.9			1.7	4.0
Number		547	3,586			425	4,558
Female							
Sample Number	1	4	52	8	1	16	82
Percent	0.6	2.5	33.1	5.1	0.6	10.2	52.2
Std. Error	0.6	1.3	3.8	1.8	0.6	2.4	4.0
Number	61	243	3,161	486	61	973	4,985
All Fish							
Sample Number	1	13	111	8	1	23	157
Percent	0.6	8.3	70.7	5.1	0.6	14.6	100.0
Std. Error	0.6	2.2	3.6	1.8	0.6	2.8	
Number	61	790	6,747	486	61	1,398	9,543
Escapement Dates:	(July 20 - 26)						
Sampling Dates:	(July 23, 24)						
Male							
Sample Number	2	7	48	1		11	69
Percent	1.0	3.6	24.6	0.5		5.6	35.4
Std. Error	0.7	1.3	3.1	0.5		1.7	3.4
Number	102	356	2,438	51		559	3,506
Female							
Sample Number	1	14	75	15	1	20	126
Percent	0.5	7.2	38.5	7.7	0.5	10.3	64.6
Std. Error	0.5	1.9	3.5	1.9	0.5	2.2	3.4
Number	51	711	3,810	762	51	1,016	6,401
All Fish							
Sample Number	3	21	123	16	1	31	195
Percent	1.5	10.8	63.1	8.2	0.5	15.9	100.0
Std. Error	0.9	2.2	3.5	2.0	0.5	2.6	
Number	153	1,067	6,248	813	51	1,575	9,907

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Appendix Table G8. Age composition of the Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986 (continued).

Brood Year and Age Class							
	1982		1981		1980		
	0.3	1.2	1.3	2.2	1.4	2.3	Total
Escapement Dates:	(July 27 - August 2)						
Sampling Dates:	(July 30)						
Male							
Sample Number	5		35	4	1	15	60
Percent	2.7		18.6	2.1	0.5	8.0	31.9
Std. Error	1.2		2.8	1.1	0.5	2.0	3.4
Number	323		2,263	259	65	970	3,880
Female							
Sample Number	1	10	80	12		25	128
Percent	0.5	5.3	42.6	6.4		13.3	68.1
Std. Error	0.5	1.6	3.6	1.8		2.5	3.4
Number	65	647	5,172	776		1,616	8,276
All Fish							
Sample Number	6	10	115	16	1	40	188
Percent	3.2	5.3	61.2	8.5	0.5	21.3	100.0
Std. Error	1.3	1.6	3.6	2.0	0.5	3.0	
Number	388	647	7,435	1,035	65	2,586	12,156
Escapement Dates:	(August 3 - 16)						
Sampling Dates:	(August 7, 11)						
Male							
Sample Number		1	24	2		24	51
Percent		0.5	11.0	0.9		11.0	23.3
Std. Error		0.5	2.1	0.6		2.1	2.9
Number		48	1,146	96		1,146	2,436
Female							
Sample Number	4	29	64	28		43	168
Percent	1.8	13.2	29.2	12.8		19.6	76.7
Std. Error	0.9	2.3	3.1	2.3		2.7	2.9
Number	191	1,385	3,056	1,337		2,054	8,023
All Fish							
Sample Number	4	30	88	30		67	219
Percent	1.8	13.7	40.2	13.7		30.6	100.0
Std. Error	0.9	2.3	3.3	2.3		3.1	
Number	191	1,433	4,202	1,433		3,200	10,459
Combined Periods (Percentages are weighted by period catches)							
Male							
Sample Number	8	34	215	8	1	63	329
Percent	0.8	4.0	21.0	0.7	0.1	5.3	31.9
Std. Error	0.3	0.7	1.3	0.3	0.1	0.7	1.5
Number	538	2,893	15,033	520	65	3,786	22,835
Female							
Sample Number	8	98	389	73	2	118	688
Percent	0.7	10.7	40.1	6.3	0.2	10.1	68.1
Std. Error	0.3	1.1	1.6	0.8	0.1	0.9	1.5
Number	482	7,670	28,681	4,504	112	7,259	48,708
All Fish							
Sample Number	16	132	604	81	3	181	1,017
Percent	1.4	14.8	61.1	7.0	0.2	15.4	100.0
Std. Error	0.4	1.2	1.6	0.8	0.1	1.1	
Number	1,020	10,563	43,714	5,024	177	11,045	71,543

Appendix Table G9. Age composition of the Old Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class						
	1984	1983	1982		1981	
	0.1	0.2	0.3	1.2	1.3	2.2
Sampling Dates:	(Sept. 19)					
Male						
Sample Number	2	70	25	2	5	1
Percent	1.1	37.4	13.4	1.1	2.7	0.5
Std. Error	0.8	3.5	2.5	0.8	1.2	0.5
Female						
Sample Number		17	59	1	5	82
Percent		9.1	31.6	0.5	2.7	43.9
Std. Error		2.1	3.4	0.5	1.2	3.6
All Fish						
Sample Number	2	87	84	3	10	1
Percent	1.1	46.5	44.9	1.6	5.3	0.5
Std. Error	0.8	3.7	3.6	0.9	1.6	0.5

Appendix Table G10. Age composition of Situk River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class				
	1983	1982	1981	Total
	1.1	2.1	3.1	
Statistical Weeks	28	-	34	(July 6 - August 23)
Male				
Sample Number	22	24	1	47
Percent	16.4	17.9	0.7	35.1
Std. Error	3.2	3.3	0.7	4.1
Number	149	161	7	317
Female				
Sample Number	47	39	1	87
Percent	35.1	29.1	0.7	64.9
Std. Error	4.1	3.9	0.7	4.1
Number	317	264	7	588
All Fish				
Sample Number	69	63	2	134
Percent	51.5	47.0	1.5	100.0
Std. Error	4.3	4.3	1.1	
Number	466	425	14	905
Statistical Weeks	35	-	36	(August 24 - Sept. 6)
Male				
Sample Number	27	35	3	65
Percent	17.2	22.3	1.9	41.4
Std. Error	3.0	3.3	1.1	3.9
Number	1,260	1,634	140	3,034
Female				
Sample Number	37	50	5	92
Percent	23.6	31.8	3.2	58.6
Std. Error	3.4	3.7	1.4	3.9
Number	1,728	2,334	233	4,295
All Fish				
Sample Number	64	85	8	157
Percent	40.8	54.1	5.1	100.0
Std. Error	3.9	4.0	1.8	
Number	2,988	3,968	373	7,329
Statistical Weeks	37	-	38	(Sept. 7 - 20)
Male				
Sample Number	22	41		63
Percent	14.2	26.5		40.6
Std. Error	2.8	3.6		4.0
Number	927	1,726		2,653
Female				
Sample Number	41	50	1	92
Percent	26.5	32.3	0.6	59.4
Std. Error	3.6	3.8	0.6	4.0
Number	1,726	2,105	42	3,873
All Fish				
Sample Number	63	91	1	155
Percent	40.6	58.7	0.6	100.0
Std. Error	4.0	4.0	0.6	
Number	2,653	3,831	42	6,526
Combined Periods (Percentages are weighted by period catches)				
Male				
Sample Number	71	100	4	175
Percent	15.8	23.9	1.0	40.7
Std. Error	2.0	2.3	0.5	2.6
Number	2,335	3,522	147	6,004
Female				
Sample Number	125	139	7	271
Percent	25.5	31.9	1.9	59.3
Std. Error	2.3	2.5	0.8	2.6
Number	3,771	4,703	282	8,756
All Fish				
Sample Number	196	239	11	446
Percent	41.4	55.7	2.9	100.0
Std. Error	2.6	2.7	0.9	
Number	6,106	8,225	429	14,760

Appendix Table G11. Length composition of the Situk River commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1982		1981		1980
		0.3	1.2	0.4	1.3	1.4
Statistical Weeks 28 - 38 (July 6 - Sept. 20)						
Male	Avg. Length		646.0	975.0	862.5	901.7
	Std. Error		52.6		17.4	25.3
	Sample Size		5	1	12	6
Female	Avg. Length	835.0	627.5		835.0	883.3
	Std. Error		19.0		9.7	14.2
	Sample Size	1	12		23	9
All Fish	Avg. Length	835.0	632.9	975.0	844.4	890.7
	Std. Error		19.6		8.9	12.9
	Sample Size	1	17	1	35	15

Appendix Table G12. Length composition of the Situk River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class							
		1983		1982		1981		1980	
		0.2	0.3	1.2		1.3	2.2		2.3
Statistical Week	28	(July 6 - 12)							
Male	Avg. Length		581.7	535.0	564.4			575.0	
	Std. Error		10.5	5.0	19.4				
	Sample Size		9	3	9				1
Female	Avg. Length	515.0	575.7	525.0	544.5	590.0	550.0		
	Std. Error	35.0	12.5	7.7	4.5				
	Sample Size	2	7	6	21	1			2
All Fish	Avg. Length	515.0	579.1	528.3	550.5	590.0	558.3		
	Std. Error	35.0	7.8	5.5	6.6				
	Sample Size	2	16	9	30	1			3
Statistical Week	29	(July 13 - 19)							
Male	Avg. Length		590.0		581.3			576.7	
	Std. Error				5.2			18.6	
	Sample Size		1		4				3
Female	Avg. Length		565.0		548.8			562.5	
	Std. Error				7.2			17.5	
	Sample Size		1		4				2
All Fish	Avg. Length		577.5		565.0			571.0	
	Std. Error		12.5		7.4			12.1	
	Sample Size		2		8				5
Statistical Weeks	30 - 38	(July 20 - Sept. 20)							
Male	Avg. Length		565.0	589.0	532.5	597.0			
	Std. Error			11.2	22.5	21.3			
	Sample Size		1	5	2	5			
Female	Avg. Length		570.0	565.0	460.0	560.0			
	Std. Error		3.5	11.0	20.0	16.8			
	Sample Size		4	8	2	4			
All Fish	Avg. Length		570.0	565.0	574.2	496.3	580.6		
	Std. Error		3.5	8.4	24.3	14.7			
	Sample Size		4	1	13	4			9
Combined Periods (Unweighted)									
Male	Avg. Length		582.5	542.5	575.0	532.5	587.8		
	Std. Error		9.5	8.3	10.3	22.5	13.0		
	Sample Size		10	4	18	2			9
Female	Avg. Length	515.0	572.9	525.0	550.0	503.3	558.1		
	Std. Error	35.0	7.2	7.7	4.2	44.8	8.7		
	Sample Size	2	12	6	33	3			8
All Fish	Avg. Length	515.0	577.3	532.0	558.8	515.0	573.8		
	Std. Error	35.0	5.8	6.1	4.8	26.6	8.6		
	Sample Size	2	22	10	51	5			17

Appendix Table G13. Length composition of the Situk River sockeye salmon escapement by sex, age class, and sampling period, 1986.

Brood Year and Age Class						
		1982		1981		1980
		0.3	1.2	1.3	2.2	1.4
Escapement Dates:	(June 29 - July 12)					
Sampling Dates:	(June 30, July 2)					
Male	Avg. Length	590.0	488.5	574.7	475.0	590.8
	Std. Error		14.1	5.4		8.2
	Sample Size	1	17	49	1	6
Female	Avg. Length	565.0	487.3	548.1	482.0	558.9
	Std. Error		6.7	2.5	9.7	11.7
	Sample Size	1	41	118	10	14
All Fish	Avg. Length	577.5	487.7	555.9	481.4	568.5
	Std. Error	12.5	6.2	2.5	8.8	9.1
	Sample Size	2	58	167	11	20
Escapement Dates:	(July 13 - 19)					
Sampling Dates:	(July 9)					
Male	Avg. Length		490.0	584.6		562.1
	Std. Error		16.9	3.2		9.7
	Sample Size		9	59		7
Female	Avg. Length	580.0	550.0	561.9	526.3	595.0
	Std. Error		14.0	3.4	14.1	8.4
	Sample Size	1	4	52	8	1
						16
All Fish	Avg. Length	580.0	508.5	574.0	526.3	595.0
	Std. Error		14.5	2.6	14.1	6.4
	Sample Size	1	13	111	8	1
						23
Escapement Dates:	(July 20 - 26)					
Sampling Dates:	(July 16)					
Male	Avg. Length	577.5	528.6	587.4	535.0	593.2
	Std. Error	27.5	16.0	3.3		6.4
	Sample Size	2	7	48	1	11
Female	Avg. Length	590.0	482.5	559.7	496.3	565.0
	Std. Error		11.1	3.0	7.4	5.4
	Sample Size	1	14	75	15	1
						20
All Fish	Avg. Length	581.7	497.9	570.5	498.8	565.0
	Std. Error	16.4	10.1	2.5	7.3	5.2
	Sample Size	3	21	123	16	1
						31

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Appendix Table G13. Length composition of the Situk River sockeye salmon escapement by sex, age class, and sampling period, 1986.

Brood Year and Age Class							
		1982		1981		1980	
		0.3	1.2	1.3	2.2	1.4	2.3
Escapement Dates: (July 27 - August 2)							
Sampling Dates: (July 23, 24)							
Male	Avg. Length	580.0		575.4	508.8	575.0	577.0
	Std. Error	17.0		4.9	8.3		5.5
	Sample Size	5		34	4	1	15
Female	Avg. Length	560.0	505.0	556.7	500.0		553.0
	Std. Error		12.1	2.6	8.8		4.1
	Sample Size	1	10	80	12		25
All Fish	Avg. Length	576.7	505.0	562.3	502.2	575.0	562.0
	Std. Error	14.3	12.1	2.5	6.8		3.7
	Sample Size	6	10	114	16	1	40
Escapement Dates: (August 3 - 16)							
Sampling Dates: (August 11)							
Male	Avg. Length		510.0	598.3	510.0		580.4
	Std. Error			8.0	10.0		6.7
	Sample Size		1	23	2		24
Female	Avg. Length	581.3	490.0	554.6	477.9		550.9
	Std. Error	5.2	5.2	3.8	7.2		6.0
	Sample Size	4	26	63	28		40
All Fish	Avg. Length	581.3	490.7	566.3	480.0		562.0
	Std. Error	5.2	5.1	4.0	6.9		4.8
	Sample Size	4	27	86	30		64
Combined Periods (Unweighted)							
Male	Avg. Length	580.6	497.8	583.0	508.1	575.0	580.8
	Std. Error	11.5	9.2	2.1	7.1		3.5
	Sample Size	8	34	213	8	1	63
Female	Avg. Length	577.5	491.8	555.0	491.2	580.0	554.1
	Std. Error	4.2	4.1	1.3	4.3	15.0	3.0
	Sample Size	8	95	388	73	2	115
All Fish	Avg. Length	579.1	493.4	564.9	492.8	578.3	563.6
	Std. Error	5.9	3.8	1.3	4.0	8.8	2.5
	Sample Size	16	129	601	81	3	178

Appendix Table G14. Length composition of the Old Situk River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class							
		1984	1983	1982		1981	
		0.1	0.2	0.3	1.2	1.3	2.2
Sampling Date: (Sept. 19)							
Male	Avg. Length	395.0	426.4	527.1	445.0	522.5	400.0
	Std. Error		3.0	13.8		40.9	
	Sample Size	2	60	14	1	4	1
Female	Avg. Length		486.3	538.2	510.0	538.8	
	Std. Error		12.7	2.9		6.6	
	Sample Size		12	49	1	4	
All Fish	Avg. Length	395.0	436.4	535.7	477.5	530.6	400.0
	Std. Error		4.2	3.8	32.5	19.4	
	Sample Size	2	72	63	2	8	1

Appendix Table G15. Length composition of the Situk River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class		
		1983	1982	1981
		1.1	2.1	3.1
Statistical Weeks 28 - 34 (July 6 - August 23)				
Male	Avg. Length	632.5	617.5	
	Std. Error	29.0	87.5	
	Sample Size	4	2	
Female	Avg. Length	547.5	515.0	
	Std. Error	7.5	13.2	
	Sample Size	2	3	
All Fish	Avg. Length	604.2	556.0	
	Std. Error	25.7	38.1	
	Sample Size	6	5	
Statistical Weeks 35 - 36 (August 24 - Sept. 6)				
Male	Avg. Length	643.3	625.0	
	Std. Error	40.4	17.3	
	Sample Size	3	3	
Female	Avg. Length	590.0	626.7	540.0
	Std. Error		16.6	
	Sample Size	2	6	1
All Fish	Avg. Length	622.0	626.1	540.0
	Std. Error	25.7	11.8	
	Sample Size	5	9	1
Statistical Weeks 37 - 38 (Sept. 7 - 20)				
Male	Avg. Length		678.8	
	Std. Error		17.4	
	Sample Size		4	
Female	Avg. Length	615.7	646.0	
	Std. Error	16.6	11.8	
	Sample Size	7	5	
All Fish	Avg. Length	615.7	660.6	
	Std. Error	16.6	11.0	
	Sample Size	7	9	
Combined Periods (Unweighted)				
Male	Avg. Length	637.1	647.2	
	Std. Error	21.9	19.7	
	Sample Size	7	9	
Female	Avg. Length	598.6	609.6	540.0
	Std. Error	13.2	16.1	
	Sample Size	11	14	1
All Fish	Avg. Length	613.6	624.3	540.0
	Std. Error	12.2	12.8	
	Sample Size	18	23	1

Appendix Table H1. Lost River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
28	7/06-7/12	24	1	3	6			
29	7/13-7/19	36	1	2	111		7	
30	7/20-7/26	36	3	1	190			
31	7/27-8/02	Closed						
32	8/03-8/09	72	Not Fished					
33	8/10-8/16	72	1		46	21	12	
34	8/17-8/23	72	4		100	55	31	5
35	8/24-8/30	72	3		26	276	30	1
36	8/31-9/06	72	4		8	646		3
37	9/07-9/13	48	4		2	479		
38	9/14-9/20	72	4		1	618		
39	9/21-9/27	48	4		1	254		
40	9/28-10/4	72	2			140		
TOTAL				6	491	2,489	80	9

Appendix Table H2. Lost River escapement of salmon, 1986. 1/

Area	Dates	Period		Coho	Pink	Chum
		Chinook	Sockeye			
Ophir Creek	9/05		1,500			
	9/26		1,339 2/			
	10/30			310 3/		
Tawah Creek	9/05			1,030		
	9/11		10	2,656	473 4/	
	9/25			3,300 4/		
	10/30		30			

1/ Aerial surveys unless otherwise noted.

2/ Foot survey.

3/ Mouth of creek surveyed.

4/ Boat survey.

Appendix Table H3. Age composition of the Lost River commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class							
	1983		1982		1981		1980	
	0.2	0.3	1.2	1.3	2.2	2.3	Total	
Statistical Weeks	28	-	30	(July 6 - 26)				
Male								
Sample Number	2	10	9	19	1	5	46	
Percent	1.9	9.3	8.4	17.8	0.9	4.7	43.0	
Std. Error	1.3	2.8	2.7	3.7	0.9	2.0	4.8	
Number	6	29	26	55	3	14	132	
Female								
Sample Number		11	7	32	3	8	61	
Percent		10.3	6.5	29.9	2.8	7.5	57.0	
Std. Error		2.9	2.4	4.4	1.6	2.6	4.8	
Number		32	20	91	9	23	175	
All Fish								
Sample Number	2	21	16	51	4	13	107	
Percent	1.9	19.6	15.0	47.7	3.7	12.1	100.0	
Std. Error	1.3	3.9	3.5	4.9	1.8	3.2		
Number	6	61	46	146	11	37	307	
Statistical Weeks	33	-	39	(August 10 - Sept. 27)				
Male								
Sample Number	3	3	3	8	1		18	
Percent	6.0	6.0	6.0	16.0	2.0		36.0	
Std. Error	3.4	3.4	3.4	5.2	2.0		6.9	
Number	11	11	11	29	4		66	
Female								
Sample Number		5	13	10	2	2	32	
Percent		10.0	26.0	20.0	4.0	4.0	64.0	
Std. Error		4.3	6.3	5.7	2.8	2.8	6.9	
Number		18	49	37	7	7	118	
All Fish								
Sample Number	3	8	16	18	3	2	50	
Percent	6.0	16.0	32.0	36.0	6.0	4.0	100.0	
Std. Error	3.4	5.2	6.7	6.9	3.4	2.8		
Number	11	29	60	66	11	7	184	
Combined Periods (Percentages are weighted by period catches)								
Male								
Sample Number	5	13	12	27	2	5	64	
Percent	3.4	8.1	7.5	17.1	1.3	2.9	40.4	
Std. Error	1.5	2.2	2.1	3.0	1.0	1.3	4.0	
Number	17	40	37	83	7	14	198	
Female								
Sample Number		16	20	42	5	10	93	
Percent		10.2	13.8	26.2	3.3	6.2	59.6	
Std. Error		2.4	2.8	3.5	1.5	1.9	4.0	
Number		50	68	129	16	30	293	
All Fish								
Sample Number	5	29	32	69	7	15	157	
Percent	3.4	18.3	21.3	43.3	4.6	9.1	100.0	
Std. Error	1.5	3.1	3.3	4.0	1.7	2.2		
Number	17	90	105	212	23	44	491	

Appendix Table H4. Age composition of the Lost River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

	Brood Year and Age Class							
	1983		1982		1981		1980	
	0.2	1.1	0.3	1.2	1.3	2.2	2.3	Total
Sampling Dates:	(Sept. 26)							
Male								
Sample Number	2	1	4	8	7	3		25
Percent	2.1	1.0	4.1	8.2	7.2	3.1		25.8
Std. Error	1.5	1.0	2.0	2.8	2.6	1.8		4.5
Female								
Sample Number	10		13	24	17	2	6	72
Percent	10.3		13.4	24.7	17.5	2.1	6.2	74.2
Std. Error	3.1		3.5	4.4	3.9	1.5	2.5	4.5
All Fish								
Sample Number	12	1	17	32	24	5	6	97
Percent	12.4	1.0	17.5	33.0	24.7	5.2	6.2	100.0
Std. Error	3.4	1.0	3.9	4.8	4.4	2.3	2.5	

Appendix Table H5. Age composition of the Lost River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	Total
	1.1	2.1	3.1	4.1	
Statistical Weeks	33	-	36	(August 10 - Sept. 6)	
Male					
Sample Number	25	42	10	1	78
Percent	11.8	19.9	4.7	0.5	37.0
Std. Error	2.2	2.8	1.5	0.5	3.3
Number	118	199	47	5	369
Female					
Sample Number	46	74	13		133
Percent	21.8	35.1	6.2		63.0
Std. Error	2.8	3.3	1.7		3.3
Number	218	350	61		629
All Fish					
Sample Number	71	116	23	1	211
Percent	33.6	55.0	10.9	0.5	100.0
Std. Error	3.3	3.4	2.2	0.5	
Number	336	549	108	5	998
Statistical Weeks	37	-	38	(Sept. 7 - 20)	
Male					
Sample Number	21	41	7	1	70
Percent	13.8	27.0	4.6	0.7	46.1
Std. Error	2.8	3.6	1.7	0.7	4.1
Number	152	296	50	7	505
Female					
Sample Number	23	40	18	1	82
Percent	15.1	26.3	11.8	0.7	53.9
Std. Error	2.9	3.6	2.6	0.7	4.1
Number	166	289	130	7	592
All Fish					
Sample Number	44	81	25	2	152
Percent	28.9	53.3	16.4	1.3	100.0
Std. Error	3.7	4.1	3.0	0.9	
Number	318	585	180	14	1,097
Statistical Weeks	39	-	40	(Sept. 21 - October 4)	
Male					
Sample Number	11	25	1	1	38
Percent	7.4	16.9	0.7	0.7	25.7
Std. Error	2.2	3.1	0.7	0.7	3.6
Number	29	66	3	3	101
Female					
Sample Number	31	63	16		110
Percent	20.9	42.6	10.8		74.3
Std. Error	3.4	4.1	2.6		3.6
Number	83	167	43		293
All Fish					
Sample Number	42	88	17	1	148
Percent	28.4	59.5	11.5	0.7	100.0
Std. Error	3.7	4.0	2.6	0.7	
Number	112	233	46	3	394
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	57	108	18	3	186
Percent	12.0	22.5	4.0	0.6	39.2
Std. Error	1.6	2.0	1.0	0.4	2.3
Number	299	561	100	15	975
Female					
Sample Number	100	177	47	1	325
Percent	18.7	32.4	9.4	0.3	60.8
Std. Error	1.8	2.2	1.4	0.3	2.3
Number	466	807	234	7	1,514
All Fish					
Sample Number	157	285	65	4	511
Percent	30.7	54.9	13.4	0.9	100.0
Std. Error	2.2	2.3	1.6	0.5	
Number	765	1,368	334	22	2,489

Appendix Table H6. Length composition of the Lost River commercial gill net catch of sockeye salmon by sex, age class, and fishing period 1986.

		Brood Year and Age Class		
		1982	1981	1980
		0.3	1.2	1.3
Statistical Weeks		28 - 30	(July 6 - 26)	
Male	Avg. Length	607.5	535.0	490.0
	Std. Error	12.5		
	Sample Size	2	1	1
Female	Avg. Length		510.0	571.7
	Std. Error		10.0	4.6
	Sample Size		2	9
				14.2
All Fish	Avg. Length	607.5	518.3	563.5
	Std. Error	12.5	10.1	9.2
	Sample Size	2	3	10
				14.2
Statistical Weeks		33 - 39	(August 10 - Sept. 27)	
Male	Avg. Length		560.0	
	Std. Error			
	Sample Size		1	
Female	Avg. Length		475.0	558.3
	Std. Error			7.3
	Sample Size		1	3
All Fish	Avg. Length		517.5	558.3
	Std. Error		42.5	7.3
	Sample Size		2	3
Combined Periods (Unweighted)				
Male	Avg. Length	607.5	547.5	490.0
	Std. Error	12.5	12.5	
	Sample Size	2	2	1
Female	Avg. Length		498.3	568.3
	Std. Error		13.0	4.1
	Sample Size		3	12
				14.2
All Fish	Avg. Length	607.5	518.0	562.3
	Std. Error	12.5	14.5	7.1
	Sample Size	2	5	13
				14.2
				3

Appendix Table H7. Length composition of the Lost River escapement of sockeye salmon by sex, age class, and sampling period, 1986.

Brood Year and Age Class								
		1983		1982		1981		1980
		0.2	1.1	0.3	1.2	1.3	2.2	2.3
Sampling Dates:		(Sept. 26)						
Male	Avg. Length	430.0	390.0	508.3	437.9	558.0	470.0	
	Std. Error			54.3	14.1	11.6		
	Sample Size	1	1	3	7	5	1	
Female	Avg. Length	506.3		532.3	480.7	531.2	440.0	555.0
	Std. Error	8.9		5.9	6.4	6.6		7.7
	Sample Size	8		13	22	13	1	5
All Fish	Avg. Length	497.8	390.0	527.8	470.3	538.6	455.0	555.0
	Std. Error	11.6		10.1	6.8	6.3	15.0	7.7
	Sample Size	9	1	16	29	18	2	5

Appendix Table H8. Length composition of the Lost River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
		1983	1982	1981	
		1.1	2.1	3.1	
Statistical Weeks		33 - 36	(August 10 - Sept. 6)		
Male	Avg. Length	652.5	627.9	620.0	
	Std. Error	17.5	21.6		
	Sample Size	2	7	1	
Female	Avg. Length	623.8	631.1		
	Std. Error	14.6	15.2		
	Sample Size	4	9		
All Fish	Avg. Length	633.3	629.7	620.0	
	Std. Error	11.9	12.3		
	Sample Size	6	16	1	
Statistical Weeks		37 - 38	(Sept. 7 - Sept. 20)		
Male	Avg. Length	598.3	687.5		
	Std. Error	22.0	7.5		
	Sample Size	3	4		
Female	Avg. Length	695.0	586.3	665.0	
	Std. Error		18.0	25.0	
	Sample Size	1	4	2	
All Fish	Avg. Length	622.5	636.9	665.0	
	Std. Error	28.8	21.1	25.0	
	Sample Size	4	8	2	
Statistical Weeks		39 - 40	(Sept. 21 - October 4)		
Male	Avg. Length		690.0		
	Std. Error				
	Sample Size		1		
Female	Avg. Length	605.0	647.5	675.0	
	Std. Error	15.0	10.8	15.0	
	Sample Size	2	8	2	
All Fish	Avg. Length	605.0	652.2	675.0	
	Std. Error	15.0	10.6	15.0	
	Sample Size	2	9	2	
Combined Periods (Unweighted)					
Male	Avg. Length	620.0	652.9	620.0	
	Std. Error	18.8	15.3		
	Sample Size	5	12	1	
Female	Avg. Length	628.6	628.8	670.0	
	Std. Error	14.3	9.4	12.2	
	Sample Size	7	21	4	
All Fish	Avg. Length	625.0	637.6	660.0	
	Std. Error	11.0	8.3	13.8	
	Sample Size	12	33	5	

Appendix Table II. Yakutat Bay commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986. 1/

Week	Date	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
24	6/08-6/14	36	25	35	1,359			31
25	6/15-6/21	36	34	55	1,539	30		33
26	6/22-6/28	36	37	64	1,943	47		41
27	6/29-7/05	Closed						
28	7/06-7/12	24	17	21	1,380	76	4	43
29	7/13-7/19	36	19	15	3,230	89	90	22
30	7/20-7/26	36	16	2	2,476	20	337	25
31	7/27-8/02	36	38	14	6,496	81	1,605	46
32	8/03-8/09	72	29		790	166	688	47
33	8/10-8/16	72	31	3	2,115	642	2,061	348
34	8/17-8/23	72	15	1	374	271	449	41
35	8/24-8/30	72	3		9	230		
36	8/31-9/06	72	6	1	7	487		2
37	9/07-9/13	72	4		1	532		
38	9/14-9/20	72	6		4	249		
39	9/21-9/27	48	7		1	69		1
40	9/28-10/4	72	3			71		
TOTAL				211	21,724	3,060	5,234	680

1/ Humpy Creek not fished during 1985.

Appendix Table I2. Yakutat Bay escapement of salmon, 1986. 1/

Area	Survey Dates	Survey				
		Chinook	Sockeye	Coho	Pink	Chum
Humpy Ck.	9/03				6,233	2/
Canoe Pass	9/14			15		
Canoe Pass #2	9/14			80		
Strawberry Ck.	9/14			20		
Pavlik Homestead Ck.	9/14			0		

1/ Foot surveys.

2/ 4,000 fish off mouth of creek.

Appendix Table I3. Age composition of the Yakutat Bay commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class					
	1983	1982		1981		1980
	0.2	0.3	1.2	0.4	1.3	1.4
Statistical Weeks	24	-	33	(June 8 - August 16)		
Male						
Sample Number		1	1		8	4
Percent		1.5	1.5		12.1	6.1
Std. Error		1.5	1.5		4.0	3.0
Number		3	3		25	13
						44
Female						
Sample Number	2	3	10	5	28	4
Percent	3.0	4.5	15.2	7.6	42.4	6.1
Std. Error	2.1	2.6	4.4	3.3	6.1	3.0
Number	6	9	31	16	89	13
						164
All Fish 1/						
Sample Number	3	4	11	5	36	8
Percent	4.5	6.0	16.4	7.5	53.7	11.9
Std. Error	2.5	2.9	4.6	3.2	6.1	4.0
Number	9	13	34	16	114	25
						211

1/ Contains unsexed fish in totals.

Appendix Table 14. Age composition of the Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

	Brood Year and Age Class												
	1983			1982			1981			1980		1979	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3		Total		
Statistical Week	24	(June 8 - 14)											
Male													
Sample Number	3	28	1		21		1	2			56		
Percent	1.9	17.5	0.6		13.1		0.6	1.3			35.0		
Std. Error	1.1	3.0	0.6		2.7		0.6	0.9			3.8		
Number	25	239	8		179		8	17			476		
Female													
Sample Number	1	52	3		43			5			104		
Percent	0.6	32.5	1.9		26.9			3.1			65.0		
Std. Error	0.6	3.7	1.1		3.5			1.4			3.8		
Number	8	442	25		366			42			883		
All Fish													
Sample Number	4	80	4		64		1	7			160		
Percent	2.5	50.0	2.5		40.0		0.6	4.4			100.0		
Std. Error	1.2	4.0	1.2		3.9		0.6	1.6					
Number	33	681	33		545		8	59			1,359		
Statistical Week	25	(June 15 - 21)											
Male													
Sample Number	2	79	15		68			9			173		
Percent	0.5	18.7	3.5		16.1			2.1			40.9		
Std. Error	0.3	1.9	0.9		1.8			0.7			2.4		
Number	7	287	55		247			33			629		
Female													
Sample Number	3	101	17		114		1	1	13		250		
Percent	0.7	23.9	4.0		27.0		0.2	0.2	3.1		59.1		
Std. Error	0.4	2.1	1.0		2.2		0.2	0.2	0.8		2.4		
Number	11	367	62		415		4	4	47		910		
All Fish													
Sample Number	5	180	32		182		1	1	22		423		
Percent	1.2	42.6	7.6		43.0		0.2	0.2	5.2		100.0		
Std. Error	0.5	2.4	1.3		2.4		0.2	0.2	1.1				
Number	18	654	117		662		4	4	80		1,539		
Statistical Weeks	26	-	27	(June 22 - July 5)									
Male													
Sample Number	2	45	18		72			11			148		
Percent	0.6	13.6	5.4		21.8			3.3			44.7		
Std. Error	0.4	1.9	1.2		2.3			1.0			2.7		
Number	12	264	105		423			65			869		
Female													
Sample Number	1	45	11		103		6		17		183		
Percent	0.3	13.6	3.3		31.1		1.8		5.1		55.3		
Std. Error	0.3	1.9	1.0		2.5		0.7		1.2		2.7		
Number	6	264	65		605		35		99		1,074		
All Fish													
Sample Number	3	90	29		175		6		28		331		
Percent	0.9	27.2	8.8		52.9		1.8		8.5		100.0		
Std. Error	0.5	2.4	1.6		2.7		0.7		1.5				
Number	18	528	170		1,028		35		164		1,943		
Statistical Weeks	28	-	29	(July 6 - 19)									
Male													
Sample Number	2	23	14		54		4		8		105		
Percent	0.8	9.1	5.5		21.3		1.6		3.1		41.3		
Std. Error	0.6	1.8	1.4		2.6		0.8		1.1		3.1		
Number	36	418	254		980		73		145		1,906		
Female													
Sample Number	1	42	9		79		1	1	16		149		
Percent	0.4	16.5	3.5		31.1		0.4	0.4	6.3		58.7		
Std. Error	0.4	2.3	1.2		2.9		0.4	0.4	1.5		3.1		
Number	18	762	163		1,435		18	18	290		2,704		
All Fish													
Sample Number	3	65	23		133		5	1	24		254		
Percent	1.2	25.6	9.1		52.4		2.0	0.4	9.4		100.0		
Std. Error	0.7	2.7	1.8		3.1		0.9	0.4	1.8				
Number	54	1,180	417		2,415		91	18	435		4,610		

-Continued-

Appendix Table I4. Age composition of the Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

	Brood Year and Age Class										Total
	1983		1982		1981			1980		1979	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3		
Statistical Week	30	(July 20 - 26)									
Male											
Sample Number	2	19	9		33	4		14		81	
Percent	1.2	11.7	5.6		20.4	2.5		8.6		50.0	
Std. Error	0.9	2.5	1.8		3.2	1.2		2.2		3.9	
Number	31	290	138		504	61		214		1,238	
Female											
Sample Number	2	20	8		33			18		81	
Percent	1.2	12.3	4.9		20.4			11.1		50.0	
Std. Error	0.9	2.6	1.7		3.2			2.5		3.9	
Number	31	306	122		504			275		1,238	
All Fish											
Sample Number	4	39	17		66	4		32		162	
Percent	2.5	24.1	10.5		40.7	2.5		19.8		100.0	
Std. Error	1.2	3.4	2.4		3.9	1.2		3.1			
Number	62	596	260		1,008	61		489		2,476	
Statistical Week	31	(July 27 - August 2)									
Male											
Sample Number	6	38	10		36	6		14		110	
Percent	2.4	15.0	3.9		14.2	2.4		5.5		43.3	
Std. Error	1.0	2.2	1.2		2.2	1.0		1.4		3.1	
Number	153	972	256		921	153		358		2,813	
Female											
Sample Number	6	49	14	1	55	8		10	1	144	
Percent	2.4	19.3	5.5	0.4	21.7	3.1		3.9	0.4	56.7	
Std. Error	1.0	2.5	1.4	0.4	2.6	1.1		1.2	0.4	3.1	
Number	153	1,253	358	26	1,406	205		256	26	3,683	
All Fish											
Sample Number	12	87	24	1	91	14		24	1	254	
Percent	4.7	34.3	9.4	0.4	35.8	5.5		9.4	0.4	100.0	
Std. Error	1.3	3.0	1.8	0.4	3.0	1.4		1.8	0.4		
Number	306	2,225	614	26	2,327	358		614	26	6,496	
Statistical Weeks	32 - 39	(August 3 - Sept. 27)									
Male											
Sample Number	1	31	5		21	4		11		73	
Percent	0.6	17.5	2.8		11.9	2.3		6.2		41.2	
Std. Error	0.6	2.9	1.2		2.4	1.1		1.8		3.7	
Number	19	577	93		392	75		205		1,361	
Female											
Sample Number	3	36	13		33	3		16		104	
Percent	1.7	20.3	7.3		18.6	1.7		9.0		58.8	
Std. Error	1.0	3.0	2.0		2.9	1.0		2.2		3.7	
Number	56	673	242		615	56		298		1,940	
All Fish											
Sample Number	4	67	18		54	7		27		177	
Percent	2.3	37.9	10.2		30.5	4.0		15.3		100.0	
Std. Error	1.1	3.7	2.3		3.5	1.5		2.7			
Number	75	1,250	335		1,007	131		503		3,301	
Combined Periods	(Percentages are weighted by period catches)										
Male											
Sample Number	18	263	72		305	18	1	69		746	
Percent	1.3	14.0	4.2		16.8	1.7	<0.1	4.8		42.8	
Std. Error	0.3	1.0	0.6		1.0	0.4	<0.1	0.6		1.4	
Number	283	3,047	909		3,646	362	8	1,037		9,292	
Female											
Sample Number	17	345	75	1	460	19	2	95	1	1,015	
Percent	1.3	18.7	4.8	0.1	24.6	1.5	0.1	6.0	0.1	57.2	
Std. Error	0.4	1.1	0.6	0.1	1.2	0.4	0.1	0.7	0.1	1.4	
Number	283	4,066	1,038	26	5,344	318	22	1,309	26	12,432	
All Fish											
Sample Number	35	608	147	1	765	37	3	164	1	1,761	
Percent	2.6	32.7	9.0	0.1	41.4	3.1	0.1	10.8	0.1	100.0	
Std. Error	0.5	1.3	0.8	0.1	1.4	0.5	0.1	0.9	0.1		
Number	566	7,113	1,947	26	8,990	680	30	2,346	26	21,724	

Appendix Table I5. Age composition of the Yakutat Bay commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	1.1	2.1	3.1	4.1	Total
Statistical Weeks	25	-	34	(June 15 - August 23)	
Male					
Sample Number	24	34	9		67
Percent	12.0	17.0	4.5		33.5
Std. Error	2.3	2.7	1.5		3.3
Number	171	241	64		476
Female					
Sample Number	48	78	7		133
Percent	24.0	39.0	3.5		66.5
Std. Error	3.0	3.5	1.3		3.3
Number	341	555	50		946
All Fish					
Sample Number	72	112	16		200
Percent	36.0	56.0	8.0		100.0
Std. Error	3.4	3.5	1.9		
Number	512	796	114		1,422
Statistical Weeks	35	-	37	(August 24 - Sept. 13)	
Male					
Sample Number	19	48	9		76
Percent	10.9	27.6	5.2		43.7
Std. Error	2.4	3.4	1.7		3.8
Number	136	345	65		546
Female					
Sample Number	15	77	6		98
Percent	8.6	44.3	3.4		56.3
Std. Error	2.1	3.8	1.4		3.8
Number	108	552	43		703
All Fish					
Sample Number	34	125	15		174
Percent	19.5	71.8	8.6		100.0
Std. Error	3.0	3.4	2.1		
Number	244	897	108		1,249
Statistical Weeks	38	-	40	(Sept. 14 - October 4)	
Male					
Sample Number	15	41	6		62
Percent	11.1	30.4	4.4		45.9
Std. Error	2.7	4.0	1.8		4.3
Number	43	119	17		179
Female					
Sample Number	13	48	11		73
Percent	9.6	35.6	8.1		54.1
Std. Error	2.5	4.1	2.4		4.3
Number	37	138	32		210
All Fish					
Sample Number	28	89	17		135
Percent	20.7	65.9	12.6		100.0
Std. Error	3.5	4.1	2.9		
Number	80	257	49		389
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	58	123	24		205
Percent	11.4	23.0	4.8		39.2
Std. Error	1.5	1.9	1.0		2.3
Number	350	704	146		1,200
Female					
Sample Number	76	203	24		304
Percent	15.9	40.7	4.1		60.8
Std. Error	1.7	2.3	0.9		2.3
Number	486	1,246	125		1,860
All Fish					
Sample Number	134	326	48		509
Percent	27.3	63.7	8.8		100.0
Std. Error	2.1	2.2	1.3		
Number	836	1,950	271		3,060

Appendix Table I6. Length composition of the Yakutat Bay commercial gill net catch of chinook salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class							
		1983		1982		1981		1980	
		0.2	0.3	1.2	0.4	1.3	1.4		
Statistical Weeks	24 - 36	(June 8 - Sept. 6)							
Male	Avg. Length		600.0	460.0		861.0	955.0		
	Std. Error					43.1	20.2		
	Sample Size		1	1		5	3		
Female	Avg. Length	580.0	820.0	616.7	857.5	785.3	910.0		
	Std. Error	10.0	30.0	53.0	26.6	24.5			
	Sample Size	2	3	6	4	17	1		
All Fish 1/	Avg. Length	566.7	765.0	594.3	857.5	802.5	943.8		
	Std. Error	14.5	58.9	50.1	26.6	21.9	18.2		
	Sample Size	3	4	7	4	22	4		

1/ Contains unsexed fish in totals.

Appendix Table I7. Length composition of the Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1983	1982	1981	1980	
		0.2	0.3	1.2	1.3	2.2
Statistical Week	24	(June 8 - 14)				
Male	Avg. Length	557.5		615.0		
	Std. Error	32.5		13.2		
	Sample Size	2		4		
Female	Avg. Length	578.6		533.8		
	Std. Error	8.9		24.1		
	Sample Size	7		4		
All Fish	Avg. Length	573.9		574.4		
	Std. Error	9.2		19.9		
	Sample Size	9		8		
Statistical Week	25	(June 15 - 21)				
Male	Avg. Length	583.3	530.0	556.7		
	Std. Error	9.3		26.2		
	Sample Size	3	1	3		
Female	Avg. Length	575.0	527.0	556.3		585.0
	Std. Error	6.5	3.0	9.8		
	Sample Size	13	5	15		1
All Fish	Avg. Length	576.6	527.5	556.4		585.0
	Std. Error	5.5	2.5	8.9		
	Sample Size	16	6	18		1
Statistical Week	26	(June 22 - 28)				
Male	Avg. Length	570.0	565.0	554.0		560.0
	Std. Error	18.2	17.6	18.8		
	Sample Size	5	3	5		1
Female	Avg. Length	550.0	401.6	567.5	449.2	550.0
	Std. Error		88.9	12.5	98.4	560.0
	Sample Size	1	7	2	5	1
All Fish	Avg. Length	550.0	471.8	566.0	501.6	550.0
	Std. Error		56.5	10.4	50.4	560.0
	Sample Size	1	12	5	10	1
						2
Statistical Weeks	28 - 29	(July 6 - July 19)				
Male	Avg. Length	610.0		559.2	510.0	610.0
	Std. Error	20.0		6.5		30.0
	Sample Size	2		6	1	2
Female	Avg. Length	542.5		568.8		536.7
	Std. Error	27.5		7.4		14.5
	Sample Size	2		8		3
All Fish	Avg. Length	576.3		564.6	510.0	566.0
	Std. Error	23.9		5.1		21.8
	Sample Size	4		14	1	5

-Continued-

Appendix Table I7. Length composition of the Yakutat Bay commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986 (continued).

		Brood Year and Age Class							
		1983		1982		1981		1980	
		0.2	0.3	1.2	1.3	2.2		2.3	
Statistical Week		30	(July 20 - 26)						
Male	Avg. Length		592.5		556.0	535.0	583.8		
	Std. Error		2.5		10.9		28.3		
	Sample Size		2		5	1	4		
Female	Avg. Length		600.0	585.0	605.0		592.5		
	Std. Error				5.0		2.5		
	Sample Size		1	1	2		2		
All Fish	Avg. Length		595.0	585.0	570.0	535.0	586.7		
	Std. Error		2.9		11.8		18.0		
	Sample Size		3	1	7	1	6		
Statistical Week		31	(July 27 - August 2)						
Male	Avg. Length		545.0		587.5		607.5		
	Std. Error		35.0		11.1		27.5		
	Sample Size		2		4		2		
Female	Avg. Length	590.0	590.7	510.0	570.8	537.5	555.0		
	Std. Error		13.7	35.0	5.4	7.5	5.0		
	Sample Size		1	7	2	2	2		
All Fish	Avg. Length	590.0	580.6	510.0	577.5	537.5	581.3		
	Std. Error		13.7	35.0	5.8	7.5	19.0		
	Sample Size		1	9	2	2	4		
Statistical Weeks		32 - 39	(August 3 - Sept. 27)						
Male	Avg. Length		610.0		585.0	490.0	598.3		
	Std. Error		10.6		5.0		14.2		
	Sample Size		4		2	1	3		
Female	Avg. Length		573.8		575.0		560.0		
	Std. Error		11.4		20.0				
	Sample Size		4		2		3		
All Fish	Avg. Length		591.9		580.0	490.0	579.2		
	Std. Error		10.0		8.9		10.7		
	Sample Size		8		4	1	6		
Combined Periods (Unweighted)									
Male	Avg. Length		582.5	556.3	570.9	511.7	593.8		
	Std. Error		7.9	15.2	6.2	13.0	11.2		
	Sample Size		20	4	29	3	12		
Female	Avg. Length	570.0	547.6	537.5	549.1	541.7	560.8		
	Std. Error	20.0	18.1	10.0	13.0	6.0	6.6		
	Sample Size	2	41	10	42	3	12		
All Fish	Avg. Length	570.0	559.0	542.9	558.0	526.7	577.3		
	Std. Error	20.0	12.6	8.4	8.2	9.3	7.2		
	Sample Size	2	61	14	71	6	24		

Appendix Table I8. Length composition of the Yakutat Bay commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class		
		1983	1982	1981
		1.1	2.1	3.1
Statistical Weeks		25 - 34	(June 15 - August 23)	
Male		Avg. Length	631.3	670.0
		Std. Error	28.2	10.0
		Sample Size	4	2
Female		Avg. Length	609.2	594.2
		Std. Error	18.2	20.2
		Sample Size	6	6
All Fish		Avg. Length	609.2	609.0
		Std. Error	18.2	16.7
		Sample Size	6	10
Statistical Weeks		35 - 37	(August 24 - Sept. 13)	
Male		Avg. Length	679.0	630.0
		Std. Error	10.5	
		Sample Size	5	1
Female		Avg. Length	602.5	669.2
		Std. Error	7.2	8.5
		Sample Size	4	6
All Fish		Avg. Length	602.5	673.6
		Std. Error	7.2	6.5
		Sample Size	4	11
Statistical Weeks		38 - 40	(Sept. 14 - October 4)	
Male		Avg. Length	610.0	683.3
		Std. Error		18.6
		Sample Size	1	3
Female		Avg. Length	615.0	623.0
		Std. Error		9.7
		Sample Size	1	5
All Fish		Avg. Length	612.5	645.6
		Std. Error	2.5	13.9
		Sample Size	2	8
Combined Periods (Unweighted)				
Male		Avg. Length	610.0	664.2
		Std. Error		12.4
		Sample Size	1	12
Female		Avg. Length	607.3	629.1
		Std. Error	9.9	11.1
		Sample Size	11	17
All Fish		Avg. Length	607.5	643.6
		Std. Error	9.0	8.8
		Sample Size	12	29

Appendix Table J1. Manby Shore commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish			
				Chinook	Sockeye	Coho	Pink
26	6/22-6/28	60	2		137		
27	6/29-7/05	60	2		994		
28	7/06-7/12	60	2		1,228	27	
29	7/13-7/19	60	3		863		
30	7/20-7/26	60	3		1,561	3	2
31	7/27-8/02	60	2		228	6	2
32	8/03-8/09	72	Not Fished				
33	8/10-8/16	72	Not Fished				
34	8/17-8/23	72	Not Fished				
35	8/24-8/30	72	2		1	901	
36	8/31-9/06	72	2		1	1,487	1
37	9/07-9/13	72	3			641	3
38	9/14-9/20	48	3			444	
39	9/21-9/27	72	1			571	
TOTAL				0	5,013	4,080	3
							5

Appendix Table J2. Manby Shore escapement of salmon, 1986. 1/

Area	Survey Dates	Survey			Coho	Pink	Chum
		Chinook	Sockeye				
Esker Creek	9/13			20			
Sudden Stream	9/13			0			
Spoon River	9/20			250			
	9/26			500			
	10/30			0			
Manby Stream	9/13			0			
	9/26			50			
	10/25			100	2/		
	10/30			0			

1/ Aerial surveys unless otherwise noted.

2/ Foot survey.

Appendix Table J3. Age composition of the Manby Shore commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class								
	1983	1982		1981		1980	1979	
	0.2	0.3	1.2	1.3	2.2	2.3	3.3	Total
Statistical Weeks	26	-	36	(June 22 - 28)	August 31 - Sept. 6			
Male								
Sample Number		6	55	27	10	14	2	114
Percent		1.7	15.8	7.7	2.9	4.0	0.6	32.7
Std. Error		0.7	2.0	1.4	0.9	1.1	0.4	2.5
Number		86	790	388	144	201	29	1,637
Female								
Sample Number	1	12	74	77	20	50	1	235
Percent	0.3	3.4	21.2	22.1	5.7	14.3	0.3	67.3
Std. Error	0.3	1.0	2.2	2.2	1.2	1.9	0.3	2.5
Number	14	172	1,063	1,106	287	718	14	3,376
All Fish								
Sample Number	1	18	129	104	30	64	3	349
Percent	0.3	5.2	37.0	29.8	8.6	18.3	0.9	100.0
Std. Error	0.3	1.2	2.6	2.5	1.5	2.1	0.5	
Number	14	259	1,853	1,494	431	919	43	5,013

Appendix Table J4. Age composition of the Manby Shore commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
	1984	1983	1982	1981	1980	Total
	0.1	1.1	2.0	2.1	3.1	4.1
Statistical Weeks	28	-	35	(July 6 - August 30)		
Male						
Sample Number	13		61	10		84
Percent	6.7		31.6	5.2		43.5
Std. Error	1.8		3.4	1.6		3.6
Number	63		296	49		408
Female						
Sample Number	23		76	10		109
Percent	11.9		39.4	5.2		56.5
Std. Error	2.3		3.5	1.6		3.6
Number	112		368	49		529
All Fish						
Sample Number	36		137	20		193
Percent	18.7		71.0	10.4		100.0
Std. Error	2.8		3.3	2.2		
Number	175		664	98		937
Statistical Weeks	36	-	37	(August 31 - Sept. 13)		
Male						
Sample Number	8		36	2		46
Percent	6.5		29.3	1.6		37.4
Std. Error	2.2		4.1	1.1		4.4
Number	138		623	35		796
Female						
Sample Number	18		52	6		77
Percent	14.6		42.3	4.9		62.6
Std. Error	3.2		4.5	2.0		4.4
Number	311		900	104		1,332
All Fish						
Sample Number	26		88	8		123
Percent	21.1		71.5	6.5		100.0
Std. Error	3.7		4.1	2.2		
Number	449		1,523	139		2,128
Statistical Weeks	38	-	39	(Sept. 14 - Sept. 27)		
Male						
Sample Number	5		41	12		59
Percent	2.7		21.8	6.4		31.4
Std. Error	1.2		3.0	1.8		3.4
Number	27		222	65		319
Female						
Sample Number	1	20	91	16		129
Percent	0.5	10.6	48.4	8.5		68.6
Std. Error	0.5	2.3	3.7	2.0		3.4
Number	5	108	492	86		696
All Fish						
Sample Number	1	25	132	28		188
Percent	0.5	13.3	70.2	14.9		100.0
Std. Error	0.5	2.5	3.3	2.6		
Number	5	135	714	151		1,015
Combined Periods (Percentages are weighted by period catches)						
Male						
Sample Number	26		138	24		189
Percent	5.6		27.9	3.6		37.3
Std. Error	1.3		2.4	0.8		2.6
Number	229		1,140	148		1,522
Female						
Sample Number	1	61	1	219		315
Percent	0.1	13.0	0.4	43.1		62.7
Std. Error	0.1	1.8	0.4	2.6		2.6
Number	5	531	17	1,761		2,558
All Fish						
Sample Number	1	87	1	357		504
Percent	0.1	18.6	0.4	71.1		100.0
Std. Error	0.1	2.1	0.4	2.4		
Number	5	760	17	2,901		4,080

Appendix Table J5. Length composition of the Manby Shore commercial gill net catch of sockeye salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class						
		1982		1981		1980
		0.3	1.2	1.3	2.2	2.3
Statistical Weeks 26 - 36 (June 22 - Sept. 6)						
Male	Avg. Length		526.0	543.8	557.5	
	Std. Error		7.5	14.3	7.5	
	Sample Size		5	4	2	
Female	Avg. Length	547.5	503.3	558.3	515.0	555.0
	Std. Error	2.5	7.0	8.8	15.0	6.9
	Sample Size	2	9	3	2	7
All Fish	Avg. Length	547.5	511.4	550.0	536.3	555.0
	Std. Error	2.5	5.9	8.9	14.0	6.9
	Sample Size	2	14	7	4	7

Appendix Table J6. Length composition of the Manby Shore commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class				
	1984	1983	1982	1981
	0.1	1.1	2.1	3.1
Statistical Weeks 28 - 35 (July 6 - August 30)				
Male	Avg. Length	680.0	660.7	660.0
	Std. Error		13.9	
	Sample Size	1	7	1
Female	Avg. Length	670.0	628.6	670.0
	Std. Error	14.6	19.7	
	Sample Size	4	7	1
All Fish	Avg. Length	672.0	644.6	665.0
	Std. Error	11.5	12.4	5.0
	Sample Size	5	14	2
Statistical Weeks 36 - 37 (August 31 - Sept. 13)				
Male	Avg. Length	630.0	655.0	
	Std. Error	20.0	25.0	
	Sample Size	2	2	
Female	Avg. Length	596.7	676.7	
	Std. Error	12.0	13.3	
	Sample Size	3	3	
All Fish	Avg. Length	610.0	668.0	
	Std. Error	12.2	12.0	
	Sample Size	5	5	
Statistical Weeks 38 - 39 (Sept. 14 - 27)				
Male	Avg. Length		641.0	645.0
	Std. Error		20.9	
	Sample Size	5	1	
Female	Avg. Length	680.0	660.0	667.5
	Std. Error	10.0	11.9	5.0
	Sample Size	1	2	8
All Fish	Avg. Length	680.0	660.0	657.3
	Std. Error	10.0	11.0	4.4
	Sample Size	1	2	13
Combined Periods (Unweighted)				
Male	Avg. Length	646.7	652.9	652.5
	Std. Error	20.3	10.3	7.5
	Sample Size	3	14	2
Female	Avg. Length	680.0	643.3	653.9
	Std. Error	13.7	10.4	5.8
	Sample Size	1	9	18
All Fish	Avg. Length	680.0	644.2	653.4
	Std. Error	11.0	7.2	4.4
	Sample Size	1	12	32

Appendix Table K1. Yahtse River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish				
				Chinook	Sockeye	Coho	Pink	Chum
35	8/24-8/30	72	1			375		
36	8/31-9/06	72	1			1,082		
37	9/07-9/13	72	12			7,549		
38	9/14-9/20	48	10			3,408		
39	9/21-9/27	48	10			3,216		
40	9/28-10/4	72	9			2,648		
TOTAL				0	0	18,278	0	0

Appendix Table K2. Yahtse River escapement of salmon, 1986. 1/

Area	Dates	Survey			Coho	Pink	Chum
		Chinook	Sockeye				
Yahtse River	9/13				60		
	9/20				75		
	9/26				0 2/		
	10/30				0 2/		

1/ Aerial surveys.

2/ Poor visibility.

Appendix Table K3. Age composition of the Yahtse River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class							
	1983		1982		1981		1980
	1.1	2.0	2.1	3.1	4.1	Total	
Statistical Weeks	35	-	36	(August 24 - Sept. 6)			
Male							
Sample Number	19		59	15		93	
Percent	8.9		27.7	7.0		43.7	
Std. Error	2.0		3.1	1.8		3.4	
Number	130		403	103		636	
Female							
Sample Number	17	1	82	19	1	120	
Percent	8.0	0.5	38.5	8.9	0.5	56.3	
Std. Error	1.9	0.5	3.3	2.0	0.5	3.4	
Number	116	7	561	130	7	821	
All Fish							
Sample Number	36	1	141	34	1	213	
Percent	16.9	0.5	66.2	16.0	0.5	100.0	
Std. Error	2.6	0.5	3.2	2.5	0.5		
Number	246	7	964	233	7	1,457	
Statistical Weeks	37	-	40	(Sept. 7 - October 4)			
Male							
Sample Number	20		81	21	1	123	
Percent	7.2		29.2	7.6	0.4	44.4	
Std. Error	1.6		2.7	1.6	0.4	3.0	
Number	1,215		4,919	1,275	61	7,470	
Female							
Sample Number	17		113	24		154	
Percent	6.1		40.8	8.7		55.6	
Std. Error	1.4		3.0	1.7		3.0	
Number	1,032		6,862	1,457		9,351	
All Fish							
Sample Number	37		194	45	1	277	
Percent	13.4		70.0	16.2	0.4	100.0	
Std. Error	2.0		2.8	2.2	0.4		
Number	2,247		11,781	2,733	61	16,821	
Combined Periods (Percentages are weighted by period catches)							
Male							
Sample Number	39		140	36	1	216	
Percent	7.4		29.1	7.5	0.3	44.3	
Std. Error	1.4		2.5	1.5	0.3	2.8	
Number	1,344		5,322	1,378	61	8,105	
Female							
Sample Number	34	1	195	43	1	274	
Percent	6.3	<0.1	40.6	8.7	<0.1	55.7	
Std. Error	1.3	<0.1	2.7	1.6	<0.1	2.8	
Number	1,149	7	7,423	1,587	7	10,173	
All Fish							
Sample Number	73	1	335	79	2	490	
Percent	13.6	<0.1	69.7	16.2	0.4	100.0	
Std. Error	1.9	<0.1	2.6	2.1	0.3		
Number	2,493	7	12,745	2,965	68	18,278	

Appendix Table K4. Length composition of the Yahtse River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
		1983	1982	1981	
		1.1	2.1	3.1	
Statistical Weeks 35 - 36 (August 24 - Sept. 6)					
Male	Avg. Length	656.7	661.1		
	Std. Error	29.1	9.8		
	Sample Size	3	9		
Female	Avg. Length	555.0	648.6	670.0	
	Std. Error		16.4		
	Sample Size	1	7	1	
All Fish	Avg. Length	631.3	655.6	670.0	
	Std. Error	32.7	8.8		
	Sample Size	4	16	1	
Statistical Weeks 37 - 40 (Sept. 7 - October 4)					
Male	Avg. Length	610.0	626.8	608.3	
	Std. Error		14.0	19.6	
	Sample Size	1	11	3	
Female	Avg. Length	593.3	638.6	633.8	
	Std. Error	44.8	13.2	12.1	
	Sample Size	3	7	4	
All Fish	Avg. Length	597.5	631.4	622.9	
	Std. Error	32.0	9.8	11.1	
	Sample Size	4	18	7	
Combined Periods (Unweighted)					
Male	Avg. Length	645.0	642.3	608.3	
	Std. Error	23.6	9.5	19.6	
	Sample Size	4	20	3	
Female	Avg. Length	583.8	643.6	641.0	
	Std. Error	33.1	10.2	11.9	
	Sample Size	4	14	5	
All Fish	Avg. Length	614.4	642.8	628.8	
	Std. Error	22.1	6.9	11.3	
	Sample Size	8	34	8	

Appendix Table L1. Icy Bay area commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Fishery	Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish			
					Chinook	Sockeye	Coho	Pink
Yana River								
	38	9/14-9/20	72	1			84	
Point Riou Creek								
	39	9/21-9/27	48	5			537	
	40	9/28-10/4	72	1			121	
Jetty Creek								
	37	9/07-9/13	72	1			1,116	
	38	9/14-9/20	72	2			656	
	39	9/21-9/27	48	Not Fished			0	
	40	9/28-10/4	72	11			491	
Little River								
	36	8/31-9/06	72	1			89	
	37	9/07-9/13	72	Not Fished				
	38	9/14-9/20	72	1			680	
	39	9/21-9/27	48	1			294	
TOTAL					0	0	4,068	0

Appendix Table L2. Icy Bay area escapement of salmon, 1986. 1/

Area	Survey Dates	Survey			Coho	Pink	Chum
		Chinook	Sockeye				
Point Riou Creek	9/13				500		
	9/20				400	2/	
	9/26				350		
	10/30				0		
Jetty Creek	9/27				150		

1/ Aerial surveys.

2/ Observed in intertidal area.

Appendix Table M1. Kaliakh commercial gill net catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish			
				Chinook	Sockeye	Coho	Pink
33	8/10-8/16	72	2		1	408	
34	8/17-8/23	72	3			555	
35	8/24-8/30	72	14	1	1	3,683	1
36	8/31-9/06	72	26			2,211	
37	9/07-9/13	72	18			3,060	
38	9/14-9/20	72	13			670	
39	9/21-9/27	72	1			183	
TOTAL				1	2	10,770	0
							1

Appendix Table M2. Kaliakh River escapement of salmon, 1986. 1/

Area	Survey Dates	Chinook			Coho	Pink	Chum
		Sockeye					
Kaliakh/Kultieth R.	9/27				5,200		
Chiuki R. (Stink Ck.)	8/31				200	50	

1/ Aerial survey.

Appendix Table M3. Age composition of the Kaliakh River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	Total
	1.1	2.1	3.1	4.1	
Statistical Weeks	33	-	35	(August 10 - 30)	
Male					
Sample Number	28	85	18		131
Percent	12.6	38.3	8.1		59.0
Std. Error	2.2	3.3	1.8		3.3
Number	586	1,779	377		2,742
Female					
Sample Number	15	66	9	1	91
Percent	6.8	29.7	4.1	0.5	41.0
Std. Error	1.7	3.1	1.3	0.5	3.3
Number	314	1,381	188	21	1,904
All Fish					
Sample Number	43	151	27	1	222
Percent	19.4	68.0	12.2	0.5	100.0
Std. Error	2.7	3.1	2.2	0.5	
Number	900	3,160	565	21	4,646
Statistical Week	36	(August 31 - Sept. 6)			
Male					
Sample Number	10	46	12	2	70
Percent	5.6	25.7	6.7	1.1	39.1
Std. Error	1.7	3.3	1.9	0.8	3.7
Number	124	568	148	25	865
Female					
Sample Number	22	73	14		109
Percent	12.3	40.8	7.8		60.9
Std. Error	2.5	3.7	2.0		3.7
Number	272	901	173		1,346
All Fish					
Sample Number	32	119	26	2	179
Percent	17.9	66.5	14.5	1.1	100.0
Std. Error	2.9	3.5	2.6	0.8	
Number	396	1,469	321	25	2,211
Statistical Weeks	37	-	39	(Sept. 7 - 27)	
Male					
Sample Number	21	45	6		72
Percent	11.7	25.0	3.3		40.0
Std. Error	2.4	3.2	1.3		3.7
Number	457	978	130		1,565
Female					
Sample Number	29	67	12		108
Percent	16.1	37.2	6.7		60.0
Std. Error	2.7	3.6	1.9		3.7
Number	630	1,457	261		2,348
All Fish					
Sample Number	50	112	18		180
Percent	27.8	62.2	10.0		100.0
Std. Error	3.3	3.6	2.2		
Number	1,087	2,435	391		3,913
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	59	176	36	2	273
Percent	10.8	30.9	6.1	0.2	48.0
Std. Error	1.3	2.0	1.0	0.2	2.1
Number	1,166	3,325	655	25	5,171
Female					
Sample Number	66	206	35	1	308
Percent	11.3	34.7	5.8	0.2	52.0
Std. Error	1.3	2.0	1.0	0.2	2.1
Number	1,216	3,740	622	21	5,599
All Fish					
Sample Number	125	382	71	3	581
Percent	22.1	65.6	11.9	0.4	100.0
Std. Error	1.8	2.0	1.4	0.3	
Number	2,382	7,065	1,277	46	10,770

Appendix Table M4. Length composition of the Kaliakh River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

		Brood Year and Age Class				
		1983	1982	1981	1980	
		1.1	2.1	3.1	4.1	
Statistical Weeks		33 - 35	(August 10 - 30)			
Male	Avg. Length	630.0	672.9	647.5		
	Std. Error	8.7	12.4	2.5		
	Sample Size	3	7	2		
Female	Avg. Length	655.0	633.3	643.3		
	Std. Error		11.3	7.3		
	Sample Size	1	9	3		
All Fish	Avg. Length	636.3	650.6	645.0		
	Std. Error	8.8	9.5	4.2		
	Sample Size	4	16	5		
Statistical Week		36	(August 31 - Sept. 6)			
Male	Avg. Length	695.0	653.3		710.0	
	Std. Error		21.3			
	Sample Size	1	3		1	
Female	Avg. Length	646.7	665.0	680.0		
	Std. Error	14.5	14.6	30.0		
	Sample Size	3	6	2		
All Fish	Avg. Length	658.8	661.1	680.0	710.0	
	Std. Error	15.9	11.4	30.0		
	Sample Size	4	9	2	1	
Statistical Weeks		37 - 39	(Sept. 7 - 27)			
Male	Avg. Length	685.0	685.0			
	Std. Error	15.3	19.6			
	Sample Size	3	4			
Female	Avg. Length	643.3	647.5	635.0		
	Std. Error	14.8	5.1			
	Sample Size	3	8	1		
All Fish	Avg. Length	664.2	660.0	635.0		
	Std. Error	13.3	8.6			
	Sample Size	6	12	1		
Combined Periods (Unweighted)						
Male	Avg. Length	662.9	672.1	647.5	710.0	
	Std. Error	13.4	9.2	2.5		
	Sample Size	7	14	2	1	
Female	Avg. Length	646.4	646.5	654.2		
	Std. Error	8.0	6.4	11.8		
	Sample Size	7	23	6		
All Fish	Avg. Length	654.6	656.2	652.5	710.0	
	Std. Error	7.9	5.6	8.7		
	Sample Size	14	37	8	1	

Appendix Table N1. Tsiu River commercial gillnet catch of salmon, number of fishermen, and number of hours fished, by period, 1986.

Statistical Week	Inclusive Dates	Hours	Boats	Number of Fish			
				Chinook	Sockeye	Coho	Pink
34	8/17-8/23		14			929	
35	8/24-8/30		46			4,575	
36	8/31-9/06		41			4,409	
37	9/07-9/13		53			3,472	
38	9/14-9/20		60			5,123	
39	9/21-9/27		27			1,082	
TOTAL				0	0	19,590	0
							0

Appendix Table N2. Tsiu River escapement of salmon, 1986. 1/

Area	Dates	Survey		Coho	Pink	Chum
		Chinook	Sockeye			
Tsiu River	8/20			2,900		
	9/02			5,150		
	9/11			11,550		
	9/18			14,100		
	9/27			7,870	2/	

1/ Aerial surveys.

2/ Tsiu/Tsivat River survey. Poor visibility.

Appendix Table N3. Age composition of the Tsiu River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class					
	1983	1982	1981	1980	
	1.1	2.1	3.1	4.1	Total
Statistical Weeks	34	-	36	(August 17 - Sept. 6)	
Male					
Sample Number	71	59	8	1	139
Percent	23.2	19.3	2.6	0.3	45.4
Std. Error	2.4	2.3	0.9	0.3	2.9
Number	2,300	1,912	259	32	4,503
Female					
Sample Number	74	77	16		167
Percent	24.2	25.2	5.2		54.6
Std. Error	2.5	2.5	1.3		2.9
Number	2,398	2,494	518		5,410
All Fish					
Sample Number	145	136	24	1	306
Percent	47.4	44.4	7.8	0.3	100.0
Std. Error	2.9	2.8	1.5	0.3	
Number	4,698	4,406	777	32	9,913
Statistical Weeks	37	-	39	(Sept. 7 - 27)	
Male					
Sample Number	32	50	5	1	88
Percent	14.3	22.3	2.2	0.4	39.3
Std. Error	2.3	2.8	1.0	0.4	3.3
Number	1,382	2,161	216	43	3,802
Female					
Sample Number	52	64	18	2	136
Percent	23.2	28.6	8.0	0.9	60.7
Std. Error	2.8	3.0	1.8	0.6	3.3
Number	2,246	2,765	778	86	5,875
All Fish					
Sample Number	84	114	23	3	224
Percent	37.5	50.9	10.3	1.3	100.0
Std. Error	3.2	3.3	2.0	0.8	
Number	3,628	4,926	994	129	9,677
Combined Periods (Percentages are weighted by period catches)					
Male					
Sample Number	103	109	13	2	227
Percent	18.8	20.8	2.4	0.4	42.4
Std. Error	1.7	1.8	0.7	0.3	2.2
Number	3,683	4,071	475	76	8,305
Female					
Sample Number	126	141	34	2	303
Percent	23.7	26.8	6.6	0.4	57.6
Std. Error	1.9	2.0	1.1	0.3	2.2
Number	4,644	5,259	1,296	86	11,285
All Fish					
Sample Number	229	250	47	4	530
Percent	42.5	47.6	9.0	0.8	100.0
Std. Error	2.2	2.2	1.3	0.4	
Number	8,327	9,330	1,771	162	19,590

Appendix Table N4. Length composition of the Tsiu River commercial gill net catch of coho salmon by sex, age class, and fishing period, 1986.

Brood Year and Age Class			
	1983	1982	1981
	1.1	2.1	3.1
Statistical Weeks 34 - 36 (August 17 - Sept. 6)			
Male	Avg. Length	638.6	650.7
	Std. Error	16.6	15.3
	Sample Size	7	7
Female	Avg. Length	646.0	650.0
	Std. Error	7.6	9.9
	Sample Size	5	7
All Fish	Avg. Length	641.7	650.4
	Std. Error	9.9	8.7
	Sample Size	12	14
Statistical Weeks 37 - 39 (Sept. 7 - 27)			
Male	Avg. Length	615.0	658.3
	Std. Error	24.7	28.0
	Sample Size	3	3
Female	Avg. Length	636.3	640.8
	Std. Error	36.7	21.6
	Sample Size	4	6
All Fish	Avg. Length	627.1	646.7
	Std. Error	22.1	16.4
	Sample Size	7	9
Combined Periods (Unweighted)			
Male	Avg. Length	631.5	653.0
	Std. Error	13.5	12.7
	Sample Size	10	10
Female	Avg. Length	641.7	645.8
	Std. Error	15.6	10.9
	Sample Size	9	13
All Fish	Avg. Length	636.3	648.9
	Std. Error	10.0	8.1
	Sample Size	19	23

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